

January 11, 2006

Ms. Delrae Erickson
Exchange Bank
444 Aviation Boulevard
Santa Rosa, CA 95403

Re: Quarterly Groundwater Monitoring Report – Third Quarter 2005 and Semi-Annual Biosparge System Update, Former Exchange Bank, 330 Sebastopol Road, Santa Rosa, California, NCRWQCB Case No. 1TSO089

Dear Ms. Erickson:

This report presents Winzler & Kelly Consulting Engineers' (Winzler & Kelly's) results of groundwater monitoring and sampling activities performed on September 28 and 29, 2005, as well as an evaluation of the biosparge system operation at the Former Exchange Bank site (site), located at 330 Sebastopol Road, Santa Rosa, California (Figures 1 and 2).

GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

The Site-Specific Sampling Procedures, provided in Appendix A, describes in detail all of the monitoring and sampling activities that were performed at the site on September 28 and 29, 2005. A brief summary of these activities is also provided below.

FIELD ACTIVITIES

Personnel Present: Winzler & Kelly's Technicians, Trevor White and Pon Xayasaeng, performed the groundwater monitoring and sampling activities.

Dissolved Oxygen: On September 28, 2005, a calibrated dissolved oxygen (DO) meter was used to measure the concentrations of DO in monitoring wells M-1 through M-7. The DO readings were obtained while the biosparge system was operating.

Biosparge Shutdown: Following DO measurements, the biosparge system was shutdown on September 28, 2005, to allow groundwater levels to equilibrate.

Depth-to-Water: The depth-to-groundwater (DTW) was measured on September 29, 2005, in monitoring wells M-1 and M-3 through M-7 after allowing the monitoring wells to equilibrate to atmospheric pressure for a minimum of 30 minutes. DTW measurements were obtained using an electronic water level meter. DTW was not

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measured in M-2, because a car was parked over the well making the well inaccessible.

Purging: Prior to sampling, an electronic 12-volt, 1.5-inch submersible pump was used to purge monitoring wells M-1, M-3, M-4, M-6 and M-7 until the indicator parameters of pH, conductivity, and temperature had stabilized or until the well dewatered. A copy of each well sampling data sheet is provided in Appendix B.

Monitoring Well Sampling: On September 29, 2005, groundwater samples were collected from monitoring wells M-1, M-3, M-4, M-6, and M-7. New disposable bailers were used to collect and transfer groundwater into the appropriate laboratory-supplied, certified clean sample containers.

Chemical Analysis: Analytical Sciences Laboratory (Analytical Sciences) of Petaluma, California (a California-certified laboratory) analyzed the groundwater samples for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015M, and for benzene, toluene, ethyl benzene, and total xylenes (BTEX), oxygenated fuel additives, and lead scavengers by EPA Method 8260B. In addition, groundwater samples collected from monitoring well M-6 were analyzed for phosphate and nitrate as nitrogen by EPA Method 300 (IC).

THIRD QUARTER 2005 GROUNDWATER MONITORING RESULTS

The groundwater elevations and flow direction data are presented in Tables 1 and 2, respectively. A groundwater contour map, provided as Figure 3, illustrates the groundwater elevation contours at the site on September 29, 2005. As Figure 3 shows, the groundwater flow on September 29, 2005, was toward the northwest at an approximate gradient of 0.003 ft/ft.

On September 28, 2005, DO concentrations measured in monitoring wells M-1, M-3, and M-6 indicated that the biosparge system is effectively introducing oxygen into the aquifer near these wells. The results are summarized in Table 3.

During groundwater purging activities, the parameters of pH, conductivity, and temperature were monitored and recorded. A summary of these indicator parameters is provided in Table 3. Table 3 also includes historic laboratory results of the nitrate, phosphate, and pH for all the monitoring wells.

Nutrient monitoring was first performed on March 31, 2004, in monitoring wells M-2, M-3, M-6, and M-7. The purpose of the initial monitoring was to provide baseline concentrations prior to

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proposed nutrient injections. In addition, nutrient monitoring is completed to observe changes in nutrient concentrations and biodegradation activity. Nutrient monitoring was continued on a quarterly basis in monitoring wells M-2, M-3, M-6, and M-7 until March 24, 2005. After March 24, 2005, nutrient monitoring is only performed on M-6.

Analytical results of the groundwater sample collected on September 29, 2005 quantified Nitrate as Nitrate in M-6 at a concentration of 9.7 mg/L. Phosphate was quantified below the laboratory's detection limit (RDLs). The results are summarized in Table 3.

Results from the September 29, 2005 sampling event indicate a decrease in contaminant concentrations in those areas where biosparging has been applied. Laboratory analysis of groundwater samples collected from each monitoring well (M-1, M-3, M-4, and M-7) did not quantify any petroleum related constituents above the Regional Water Board's Water Quality Objectives except for M-6. M-6 is located downgradient of the former underground storage tank and in the area where biosparging was most recently activated (October 9, 2003). TPH-G was quantified in M-6 at a concentration of 510 µg/L in groundwater samples collected on September 29, 2005; however, this concentration is a 73% decrease in TPH-G concentration from the pre-biosparging concentration of 1,900 µg/L from September 10, 2003. A comprehensive summary of the analytical results is provided in Table 4. Analytical results of TPH-G, benzene, and methyl tert-butyl ether (MTBE) on September 29, 2005, is also provided on Figure 4.

Graphs were prepared to depict the concentrations of TPH-G over time in monitoring wells M-1 and M-6. The graphs show the effectiveness of the biosparge system in decreasing concentrations of contaminants of concern (COCs) in monitoring wells located within or near the radius of influence of operating biosparge points. The graph for monitoring well M-6, which currently receives air flow from the biosparge system, shows the concentration of TPH-G in M-6 is significantly lower than past concentrations at similar times of the year.

The laboratory QA/QC included the use of method blanks to exclude false-positive analyses and the use of laboratory control samples to evaluate the percentage recovery of known analyte spikes. The recovery percentages for all of the sample analytes were within acceptable ranges. The complete laboratory report, QA/QC data, and the chain-of-custody form for the groundwater samples are included in Appendix C.

BIOSPARGE SYSTEM

Operation and maintenance (O&M) inspections of the biosparge system are performed bi-monthly. During these O&M inspections the pressure (psi) and flow rate (SCFM) to each biosparge point of the biosparge remediation system is checked and recorded. O&M data is provided in Table 5.

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Currently, each biosparge point air flow rate is set at approximately 2.0 SCFM and a maximum pressure of 25 pounds per square inch (psi). The maximum pressure setting has been established to prevent well seal blowout. The pressure at the wellhead during operation is not measured. The system is programmed to operate one biosparge point at a time for a 20-minute duration before switching to the next biosparge point. A process logic controller is programmed to start the system at 8:00 AM and shutoff the system at 6:00 PM in order to minimize the noise disturbance to the residents at the adjacent properties.

Currently, biosparge points SP-5 through SP-11 are in operation (Figure 5). With the installation of biosparge points SP-9, SP-10, and SP-11, the area of monitoring well M-6 has seen an overall increase in DO and a downward trend of COCs. As of October 20, 2005, the biosparge system has been running as designed for a cumulative of 4,810 hours.

NUTRIENT INJECTION

The first and only nutrient injection was performed on May 25, 2004. Presently, nutrient injection is not completed because concentrations of COCs are decreasing with the addition of oxygen alone. In addition, the background nitrate levels had been above the Maximum Contaminant Level and vary considerably from quarter to quarter.

GEOTRACKER DATA ENTRY

Winzler & Kelly has submitted the groundwater well measurement file for the September 29, 2005 monitoring event, the 4th quarter 2004 monitoring report, 1st quarter 2005 monitoring report (annual report included), and the 2nd quarter 2005 groundwater monitoring report to the GeoTracker database. Copies of upload verifications are included in Appendix D. Winzler & Kelly will submit the analytical data upon receipt from Analytical Sciences and a PDF copy of this report upon completion.

CONCLUSIONS AND RECOMMENDATIONS

COCs in all the monitoring wells (except M-1 and M-6) at the site have been below the Regional Water Board's Water Quality Objectives for two or more years. Monitoring wells M-1 and M-6 are the only wells that contain COCs but are on a declining trend. Furthermore, BTEX compounds in the majority of the wells are less than the detection limit. It appears that some minor contamination reappear when the groundwater rises, but levels are decreasing quickly enough that by the time the water levels drop, the contaminants are bioremediated. Biosparging in the area of M-1 and M-6 has contributed to the decrease in COCs by enhancing bacterial metabolism of the petroleum-related hydrocarbons.

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Winzler & Kelly proposes shutting down the biosparge system for verification monitoring and sampling to start in June 2006 and continue until March 2007 (one hydraulic cycle year) if COC concentrations continual to show a decreasing trend during the next quarterly sampling event (December 2005). The monitoring wells sampling schedule is presented on Table 6. Should verification monitoring and sampling be completed, the site can be recommended for closure.

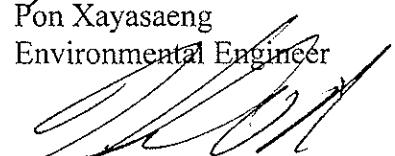
Should you have any questions or comments regarding this project, please contact Elizabeth Cargay, Project Manager, at (707) 523-1010.

Sincerely,

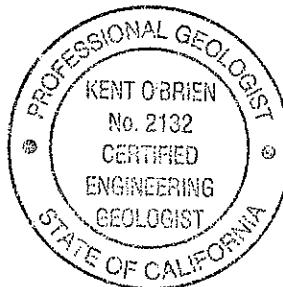
WINZLER & KELLY



Pon Xayasaeng
Environmental Engineer



Kent O'Brien, PG, CEG
Senior Project Geologist



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Attachments

Figures:

- Figure 1 – Location Map
- Figure 2 – Site Plan
- Figure 3 – Groundwater Contour Map
- Figure 4 – Petroleum Hydrocarbon Concentrations in Groundwater
- Figure 5 – Biospärge Point Locations

Tables:

- Table 1 – Water Level Data and Well Construction Detail
- Table 2 – Groundwater Gradient and Flow Direction
- Table 3 – DO, Nutrients, and Indicator Parameters
- Table 4 – Analytical Results of Groundwater Monitoring Well Samples
- Table 5 – Operation and Maintenance Data
- Table 6 – Monitoring Well Sampling Schedule

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Graphs:

Graph 1 – TPH-G Concentrations vs. Groundwater Elevations Over Time in M-1

Graph 2 – TPH-G Concentrations vs. Groundwater Elevations Over Time in M-6

Appendices:

Appendix A – Site-Specific Sampling Procedures

Appendix B – Well Sampling Data Sheets

Appendix C – Analytical Laboratory Report

Appendix D – GeoTracker Upload Verifications

c: Ms. Colleen Stone, North Coast Regional Water Quality Control Board, 5550 Skylane Boulevard, Suite A, Santa Rosa, CA 95403

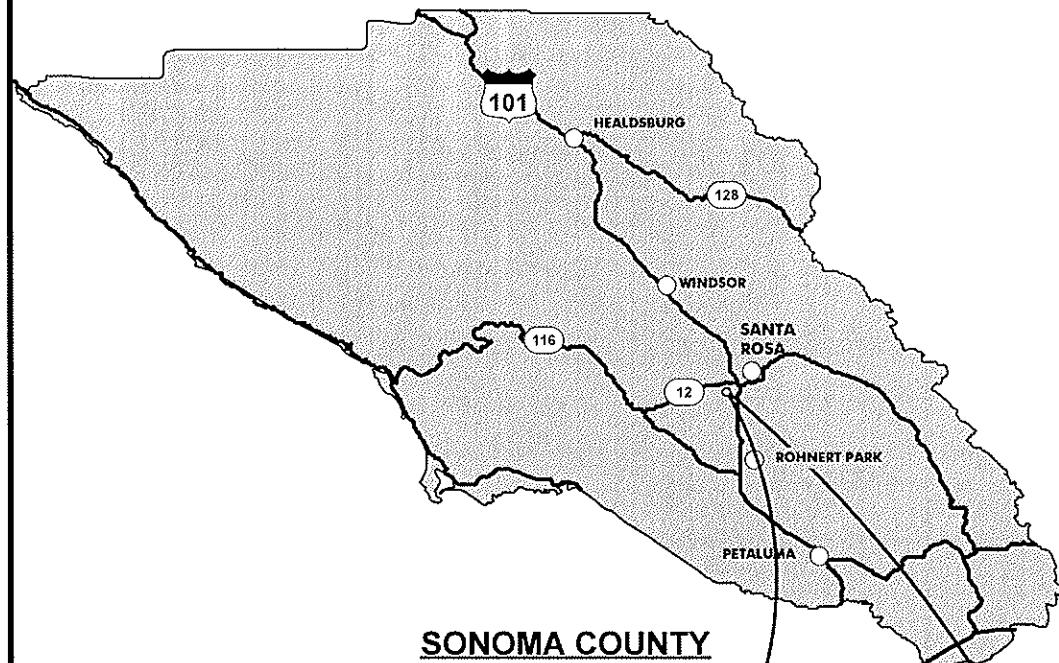
Mr. Carl Merner, Merner Land Company, P.O. Box 3468, Santa Rosa, CA 95402

Mr. William Manly, 2750 Corby Avenue, Santa Rosa, CA 95407

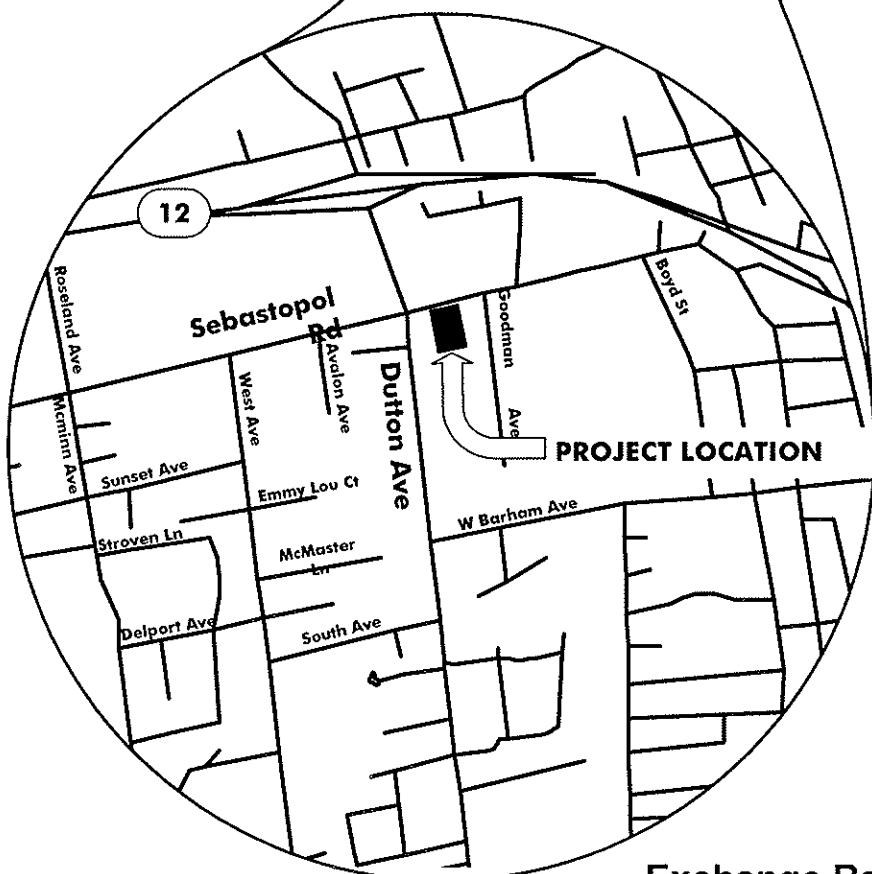
Figures



NOT TO SCALE

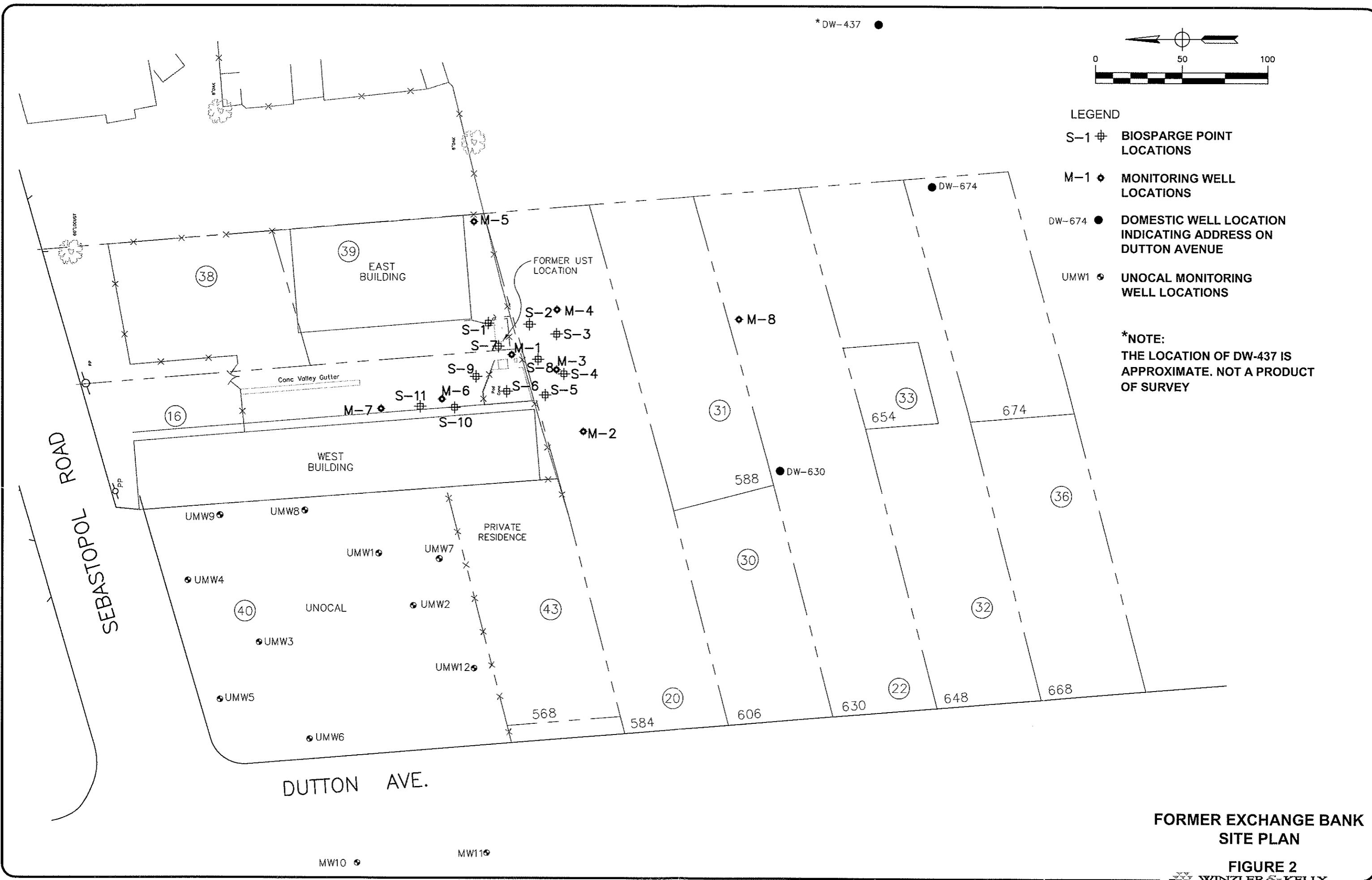


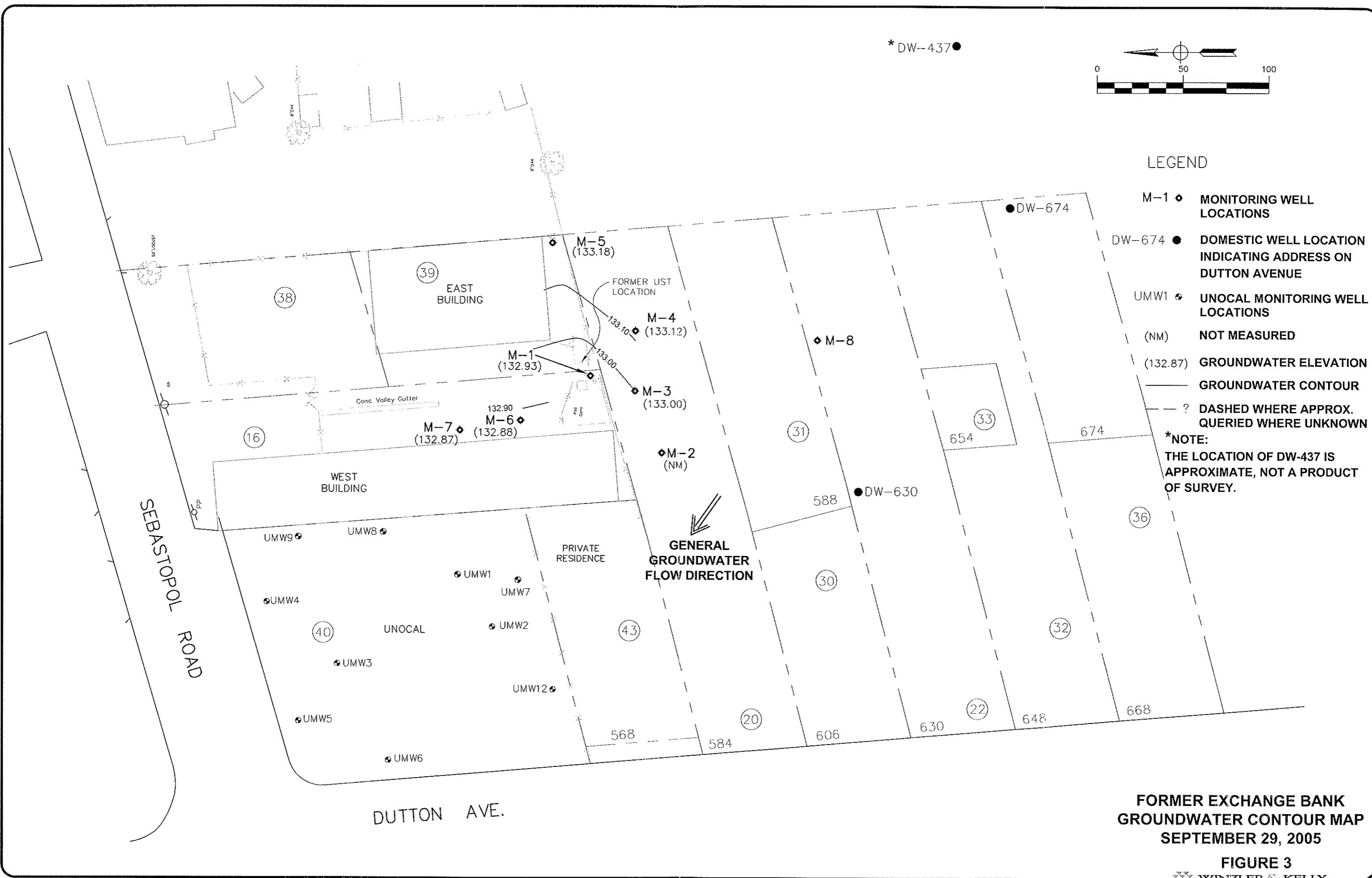
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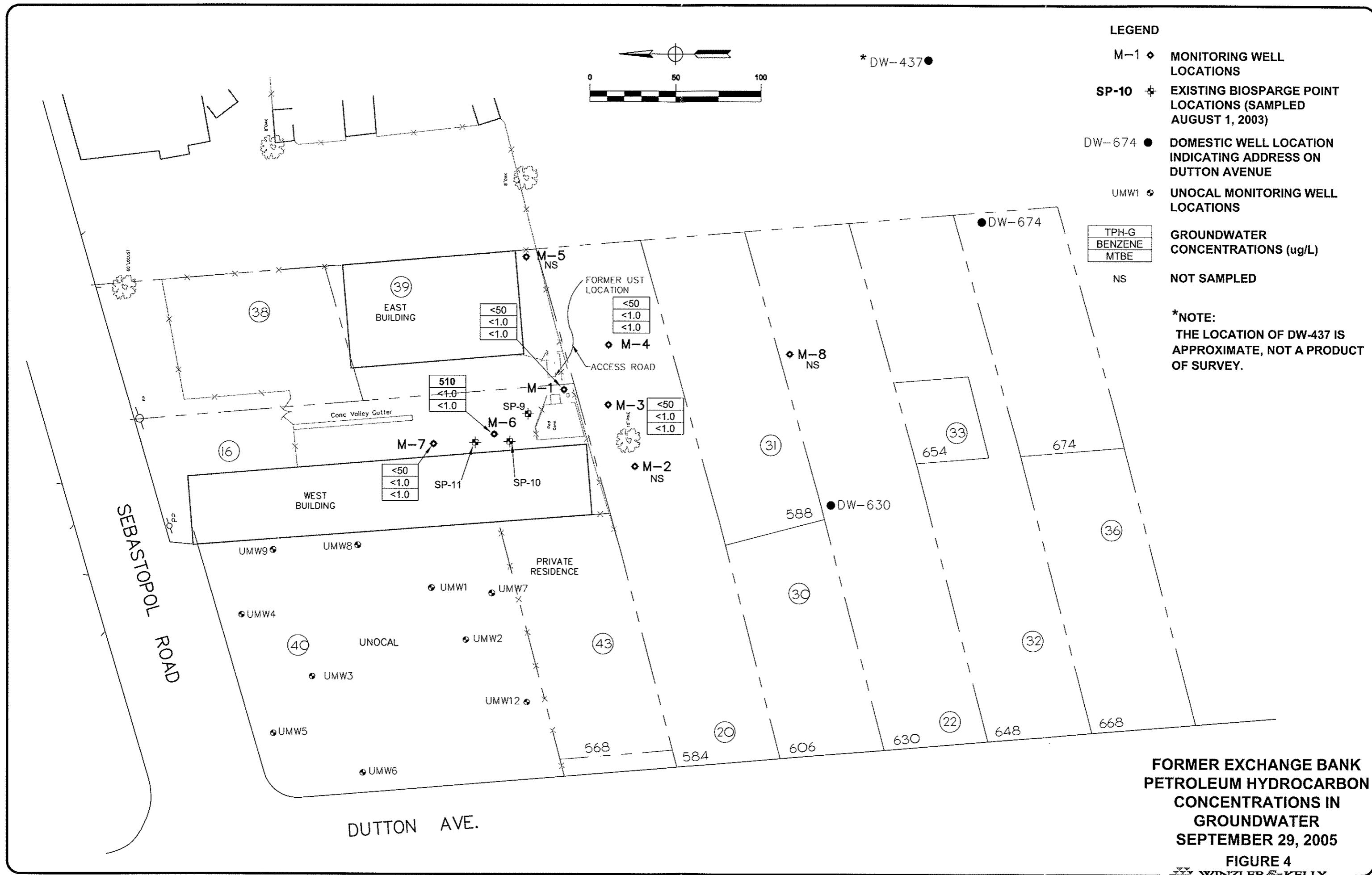


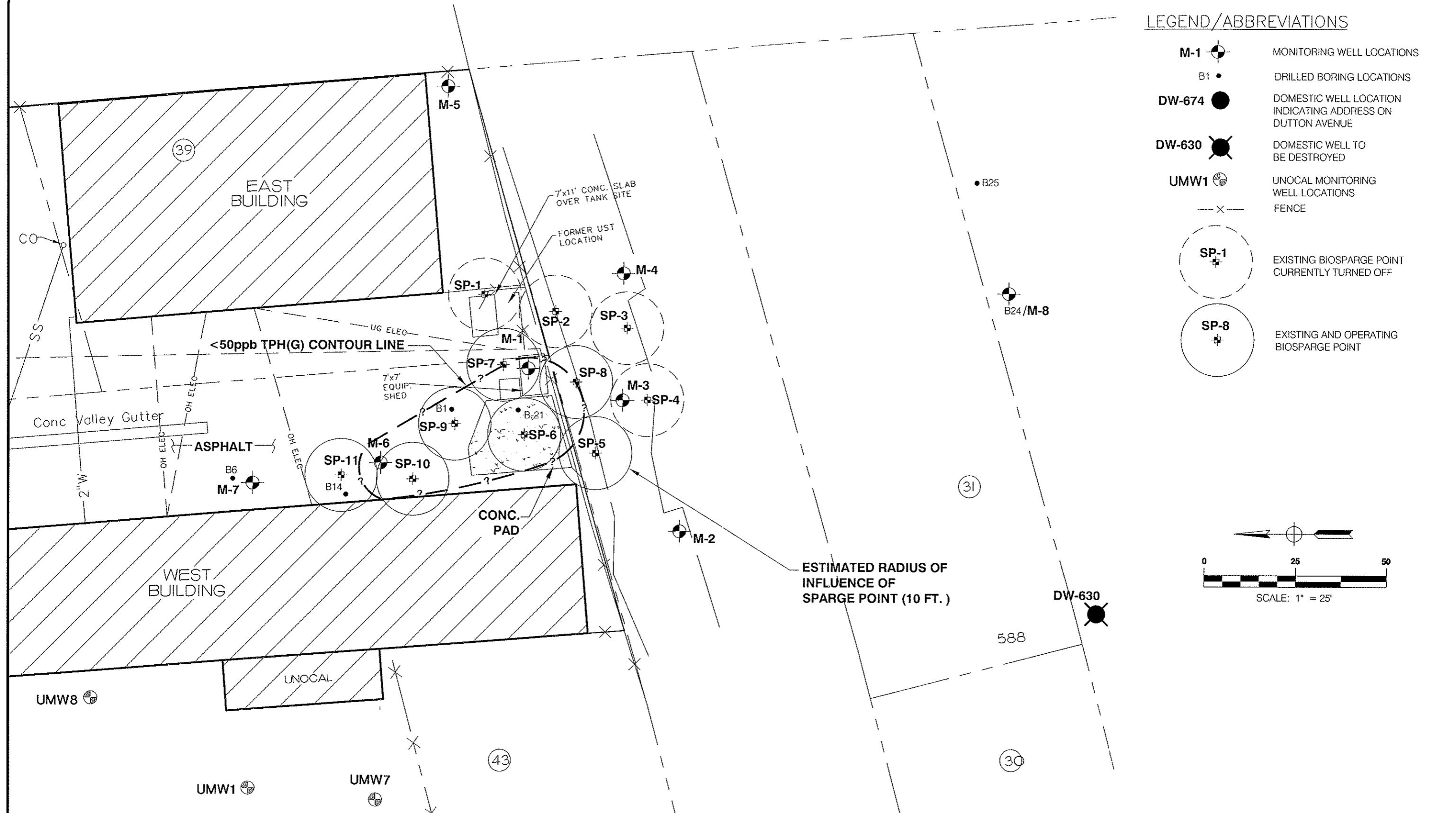
LOCATION MAP

**Exchange Bank Data Center
330 Sebastopol Road
Santa Rosa, CA**









LEGEND/ABBREVIATIONS

M-1	MONITORING WELL LOCATIONS
B1	DRILLED BORING LOCATIONS
DW-674	DOMESTIC WELL LOCATION INDICATING ADDRESS ON DUTTON AVENUE
DW-630	DOMESTIC WELL TO BE DESTROYED
UMW1	UNOCAL MONITORING WELL LOCATIONS
— X —	FENCE
SP-1	EXISTING BIOSPARGE POINT CURRENTLY TURNED OFF
SP-8	EXISTING AND OPERATING BIOSPARGE POINT

0 25 50
SCALE: 1" = 25'

FORMER EXCHANGE BANK
BIOSPARGE POINT LOCATIONS
& TPH-G PLUME EXTENT
FIGURE 5

Tables

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site

330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
								feet
M-1	12/29/1992	137.23	7.73	144.96	NM	4" Well 10 - 25 0.020"	9 - 25 #3 sand	0 - 9
	1/27/1993	139.26	5.70					
	12/11/1993	134.67	10.29					
	5/13/1994	135.31	9.65					
	9/17/1994	131.04	13.92					
	10/26/1994	130.29	14.67					
	12/17/1994	136.09	8.87					
	3/18/1995	140.07	4.89					
	6/24/1995	135.37	9.59					
	9/23/1995	132.38	12.58					
	12/16/1995	135.74	9.22					
	3/23/1996	137.68	7.28					
	6/20/1996	135.45	9.51					
	3/12/1997	136.49	8.47					
	6/26/1997	133.65	11.31					
	12/18/1997	137.10	7.86					
	1/29/1998	139.71	5.25					
	2/27/1998	141.27	3.69					
	3/18/1998	139.41	5.55					
	4/9/1998	138.54	6.42					
	5/29/1998	139.15	5.81					
	6/18/1998	136.38	8.58					
	7/22/1998	135.01	9.95					
	8/26/1998	133.83	11.13					
	9/16/1998	133.16	11.80					
	10/20/1998	132.48	12.48					
	11/19/1998	133.39	11.57					
	12/30/1998	135.19	9.77					
	3/18/1999	138.83	6.13					
	6/16/1999	134.97	9.99					
	9/23/1999	131.96	13.00					
	12/29/1999	132.96	12.00					
	8/31/2000	132.49	12.47					
	10/17/2000	System start-up on 10-17-00						
	10/25/2002	131.38	13.58					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.39	11.57					
	3/15/2001	137.93	7.03					
	6/14/2001	133.71	11.25					
	9/18/2001	130.94	14.02					
	11/13/2001	133.23	11.73					
	12/11/2001	138.04	6.92					
	1/15/2002	140.14	4.82					
	2/12/2002	137.65	7.31					
	3/12/2002	138.32	6.64					
	4/16/2002	136.17	8.79					
	5/14/2002	135.26	9.7					
	6/11/2002	134.47	10.49					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	132.89	12.07					
	8/9/2002	NA	NA					
	8/13/2002	132.21	12.75					
	12/12/2002	133.65	11.31					
	3/12/2003	137.01	7.95					
	6/11/2003	135.66	9.30					
	9/10/2003	132.51	12.45					
	10/9/2003	System Expansion Startup						
	1/20/2004 *	138.46	6.50					
	3/31/2004	137.25	7.71					
	7/16/2004	133.01	11.95					
	9/15/2004	131.51	13.45					
	12/14/2004	135.16	9.80					
	3/24/2005	139.12	5.84					
	6/16/2005	136.22	8.74					
	9/29/2005	132.93	12.03					

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site

330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval					
								feet					
M-2	5/13/1994	135.23	8.10	143.33	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4					
	9/17/1994	132.16	11.17										
	9/17/1994	132.16	11.17										
	12/17/1994	135.93	7.40										
	6/24/1995	135.27	8.06										
	9/23/1995	132.44	10.89										
	12/16/1995	135.37	7.96										
	3/23/1996	137.40	5.93										
	6/20/1996	135.36	7.97										
	3/12/1997	136.29	7.04										
	6/26/1997	133.60	9.73										
	12/17/1997	136.88	6.45										
	1/29/1998	139.11	4.22										
	2/27/1998	140.79	2.54										
	3/17/1998	138.93	4.40										
	4/9/1998	138.12	5.21										
	5/29/1998	137.04	6.29										
	6/19/1998	136.22	7.11										
	7/22/1998	134.97	8.36										
	8/26/1998	133.75	9.58										
	9/16/1998	133.13	10.20										
	10/20/1998	132.47	10.86										
	11/19/1998	133.26	10.07										
	12/30/1998	135.13	8.20										
	3/18/1999	138.39	4.94										
	6/16/1999	134.89	8.44										
	9/23/1999	131.96	11.37										
	12/23/1999	132.95	10.38										
	8/31/2000	132.47	10.86										
	10/17/2000	System start-up											
	10/25/2000	131.49	11.84										
	11/13/2000	System down due to compressor failure											
	12/6/2000	System restart											
	12/20/2000	133.21	10.12										
	3/15/2001	137.49	5.84										
	6/14/2001	133.71	9.62										
	9/18/2001	131.08	12.25										
	11/13/2001	132.21	11.12										
	12/11/2001	137.73	5.60										
	1/15/2002	139.56	3.77										
	2/12/2002	137.16	6.17										
	3/12/2002	137.70	5.63										
	4/16/2002	136.02	7.31										
	5/14/2002	135.17	8.16										
	6/11/2002	134.44	8.89										
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.											
	7/16/2002	133.03	10.30										
	8/13/2002	132.53	10.80										
	12/12/2002	132.35	10.98										
	3/12/2003	136.68	6.65										
	6/11/2003	135.58	7.75										
	9/10/2003	132.68	10.65										
	10/9/2003	System Expansion Startup											
	1/20/2004 *	138.05	5.28										
	3/31/2004	136.84	6.49										
	7/16/2004	133.04	10.29										
	9/15/2004	131.63	11.70										
	12/14/2004	134.87	8.46										
	3/24/2005	138.45	4.88										
	6/16/2005	136.04	7.29										
	9/29/2005	Well not accessible - Car parked on top.											

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site

330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
								feet
M-3	2/27/1997	---	---	143.46	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4
	3/13/1997	136.33	7.13					
	6/27/1997	133.60	9.86					
	12/18/1997	136.92	6.54					
	1/29/1998	139.58	3.88					
	2/27/1998	140.93	2.53					
	3/17/1998	139.03	4.43					
	4/9/1998	138.20	5.26					
	5/29/1998	137.34	6.12					
	6/18/1998	136.25	7.21					
	7/22/1998	134.96	8.50					
	8/26/1998	133.76	9.70					
	9/16/1998	133.12	10.34					
	10/20/1998	132.48	10.98					
	11/19/1998	133.27	10.19					
	12/30/1998	135.15	8.31					
	3/18/1999	138.48	4.98					
	6/16/1999	134.90	8.56					
	9/23/1999	131.96	11.50					
	12/23/1999	132.97	10.49					
	8/31/2000	132.48	10.98					
	10/17/2000	System start-up						
	10/25/2000	131.47	11.99					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.23	10.23					
	3/15/2001	137.54	5.92					
	6/14/2001	133.61	9.85					
	9/18/2001	131.04	12.42					
	11/13/2001	132.32	11.14					
	12/11/2001	137.75	5.71					
	1/15/2002	139.66	3.80					
	2/12/2002	137.21	6.25					
	3/12/2002	137.78	5.68					
	4/16/2002	136.03	7.43					
	5/14/2002	135.17	8.29					
	6/11/2002	134.43	9.03					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	133.02	10.44					
	8/13/2002	132.50	10.96					
	12/12/2002	132.41	11.05					
	3/12/2003	136.73	6.73					
	6/11/2003	135.58	7.88					
	9/10/2003	132.67	10.79					
	10/9/2003	System Expansion Startup						
	1/20/2004 *	138.14	5.32					
	3/31/2004	136.89	6.57					
	7/16/2004	133.05	10.41					
	9/15/2004	131.60	11.86					
	12/14/2004	134.87	8.59					
	3/24/2005	138.56	4.90					
	6/16/2005	136.05	7.41					
	9/29/2005	133.00	10.46					

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Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval					
								feet					
M-4	3/12/1997	136.43	7.49	143.92	NM	2" Well 5 - 15 0.020"	#2/12 4 - 15	0 - 4					
	6/27/1997	133.67	10.25										
	12/20/1997	137.01	6.91										
	1/29/1998	139.56	4.36										
	2/27/1998	141.11	2.81										
	3/18/1998	139.20	4.72										
	4/9/1998	138.36	5.56										
	5/29/1998	137.73	6.19										
	6/19/1998	136.35	7.57										
	7/22/1998	135.02	8.90										
	8/26/1998	133.84	10.08										
	9/16/1998	133.21	10.71										
	10/21/1998	132.58	11.34										
	11/19/1998	133.39	10.53										
	12/30/1998	135.22	8.70										
	3/18/1999	138.67	5.25										
	6/16/1999	134.98	8.94										
	9/23/1999	132.07	11.85										
	12/29/1999	133.07	10.85										
	8/31/2000	132.58	11.34										
	10/17/2000	System start-up on 10-17-00											
	10/25/2000	130.60	13.32										
	11/13/2000	System down due to compressor failure											
	12/6/2000	System restart											
	12/20/2000	133.41	10.51										
	3/15/2001	137.77	6.15										
	6/14/2001	133.77	10.15										
	9/18/2001	131.22	12.70										
	11/13/2001	132.78	11.14										
	12/11/2001	137.91	6.01										
	1/15/2002	139.90	4.02										
	2/12/2002	137.52	6.40										
	3/12/2002	138.12	5.80										
	4/16/2002	136.21	7.71										
	5/14/2002	135.29	8.63										
	6/11/2002	134.51	9.41										
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.											
	7/16/2002	133.13	10.79										
	8/13/2002	132.60	11.32										
	12/12/2002	132.91	11.01										
	3/12/2003	136.96	6.96										
	6/11/2003	135.69	8.23										
	9/10/2003	132.74	11.18										
	10/9/2003	System Expansion Startup											
	1/20/2004 *	138.37	5.55										
	3/31/2004	137.14	6.78										
	7/16/2004	133.16	10.76										
	9/15/2004	131.76	12.16										
	12/14/2004	135.09	8.83										
	3/24/2005	138.85	5.07										
	6/16/2005	136.23	7.69										
	9/29/2005	133.12	10.80										

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site

330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval					
								feet					
M-5	3/12/1997	136.60	8.26	144.86	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4					
	6/26/1997	133.75	11.11										
	12/17/1997	137.07	7.79										
	1/29/1998	139.90	4.96										
	2/27/1998	141.48	3.38										
	3/17/1998	139.44	5.42										
	4/9/1998	138.57	6.29										
	5/29/1998	137.27	7.59										
	6/18/1998	136.52	8.34										
	7/22/1998	135.14	9.72										
	8/26/1998	133.93	10.93										
	9/16/1998	133.31	11.55										
	10/20/1998	132.65	12.21										
	11/19/1998	133.42	11.44										
	12/30/1998	135.29	9.57										
	3/18/1999	138.89	5.97										
	6/16/1999	135.05	9.81										
	9/23/1999	132.18	12.68										
	12/23/1999	133.12	11.74										
	8/31/2000	132.66	12.20										
	10/17/2000	System start-up											
	10/25/2000	131.77	13.09										
	11/13/2000	System down due to compressor failure											
	12/6/2000	System restart											
	12/20/2000	133.40	11.46										
	3/15/2001	137.87	6.99										
	6/14/2001	133.84	11.02										
	9/18/2001	131.48	13.38										
	11/13/2001	132.84	12.02										
	12/11/2001	138.01	6.85										
	1/15/2002	140.10	4.76										
	2/12/2002	137.54	7.32										
	3/12/2002	138.03	6.83										
	4/16/2002	136.31	8.55										
	5/14/2002	135.36	9.50										
	6/11/2002	134.61	10.25										
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.											
	7/16/2002	133.23	11.63										
	8/13/2002	132.65	12.21										
	12/12/2002	132.73	12.13										
	3/12/2003	137.02	7.84										
	6/11/2003	135.83	9.03										
	9/10/2003	132.84	12.02										
	10/9/2003	System Expansion Startup											
	1/20/2004 *	138.46	6.40										
	3/31/2004	NM	NM										
	7/16/2004	133.25	11.61										
	7/16/2004	NM	NM										
	9/29/2005	133.18	11.68										

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site

330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval					
								feet					
M-6	3/12/1997	136.79	7.89	144.68	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4					
	6/26/1997	133.61	11.07										
	12/18/1997	136.97	7.71										
	1/29/1998	139.58	5.10										
	2/27/1998	141.27	3.41										
	3/18/1998	139.46	5.22										
	4/9/1998	138.57	6.11										
	5/29/1998	137.47	7.21										
	6/18/1998	136.47	8.21										
	7/22/1998	135.03	9.65										
	8/26/1998	133.79	10.89										
	9/16/1998	133.09	11.59										
	10/20/1998	131.41	13.27										
	11/19/1998	133.25	11.43										
	12/30/1998	135.13	9.55										
	3/18/1999	138.88	5.80										
	6/16/1999	134.96	9.72										
	9/23/1999	131.86	12.82										
	12/29/1999	132.80	11.88										
	8/31/2000	132.41	12.27										
	10/17/2000	System start-up											
	10/25/2000	131.36	13.32										
	11/13/2000	System down due to compressor failure											
	12/6/2000	System restart											
	12/20/2000	133.15	11.53										
	3/15/2001	137.75	6.93										
	6/14/2001	133.60	11.08										
	9/18/2001	130.99	13.69										
	11/13/2001	132.34	12.34										
	12/11/2001	137.59	7.09										
	1/15/2002	140.08	4.60										
	2/12/2002	137.64	7.04										
	3/12/2002	137.93	6.75										
	4/16/2002	136.29	8.39										
	5/14/2002	135.26	9.42										
	6/11/2002	134.37	10.31										
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.											
	7/16/2002	132.91	11.77										
	8/13/2002	132.15	12.53										
	12/12/2002	132.32	12.36										
	3/12/2003	137.10	7.58										
	6/11/2003	135.75	8.93										
	9/10/2003	132.45	12.23										
	10/9/2003	System Expansion Startup											
	1/20/2004 *	138.35	6.33										
	3/31/2004	137.35	7.33										
	7/16/2004	132.99	11.69										
	9/15/2004	131.45	13.23										
	12/14/2004	134.82	9.86										
	3/24/2005	138.82	5.86										
	6/16/2005	136.43	8.25										
	9/29/2005	132.88	11.80										

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site

330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval					
								feet					
M-7	3/12/1997	136.73	8.07	144.80	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4					
	6/26/1997	133.55	11.25										
	12/17/1997	136.97	7.83										
	1/29/1998	139.42	5.38										
	2/27/1998	141.21	3.59										
	3/17/1998	139.42	5.38										
	4/9/1998	138.56	6.24										
	5/29/1998	137.42	7.38										
	6/18/1998	136.22	8.58										
	7/22/1998	135.00	9.80										
	8/26/1998	133.76	11.04										
	9/16/1998	133.07	11.73										
	10/20/1998	132.33	12.47										
	11/19/1998	133.20	11.60										
	12/30/1998	135.11	9.69										
	3/18/1999	138.86	5.94										
	6/16/1999	134.95	9.85										
	9/23/1999	131.79	13.01										
	12/23/1999	132.73	12.07										
	8/31/2000	132.34	12.46										
	10/17/2000	System start-up											
	10/25/2000	131.31	13.49										
	11/13/2000	System down due to compressor failure											
	12/6/2000	System restart											
	12/20/2000	133.13	11.67										
	3/15/2001	137.72	7.08										
	6/14/2001	133.58	11.22										
	9/18/2001	130.98	13.82										
	11/13/2001	132.50	12.30										
	12/11/2001	137.56	7.24										
	1/15/2002	139.89	4.91										
	2/12/2002	137.65	7.15										
	3/12/2002	137.93	6.87										
	4/16/2002	136.30	8.50										
	5/14/2002	135.23	9.57										
	6/11/2002	134.33	10.47										
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.											
	7/16/2002	132.86	11.94										
	8/13/2002	132.09	12.71										
	12/12/2002	132.27	12.53										
	3/12/2003	137.09	7.71										
	6/11/2003	135.73	9.07										
	9/10/2003	132.41	12.39										
	10/9/2003	System Expansion Startup											
	1/20/2004 *	138.26	6.54										
	3/31/2004	137.32	7.48										
	7/16/2004	132.95	11.85										
	9/15/2004	131.40	13.40										
	12/14/2004	134.85	9.95										
	3/24/2005	138.74	6.06										
	6/16/2005	136.43	8.37										
	9/29/2005	132.87	11.93										

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval					
								feet					
M-8	7/22/1998	135.08	7.73	142.81	NM	2" Well 3.75 - 18 0.020"	#2/12 3 - 18	0 - 3					
	8/27/1998	133.88	8.93										
	9/16/1998	133.29	9.52										
	10/20/1998	132.62	10.19										
	11/19/1998	133.40	9.41										
	12/30/1998	135.30	7.51										
	3/18/1999	138.58	4.23										
	6/16/1999	135.02	7.79										
	9/23/1999	132.11	10.70										
	12/29/1999	133.11	9.70										
	8/31/2000	132.61	10.20										
	10/17/2000	System start-up											
	10/25/2000	131.65	11.16										
	12/20/2000	133.36	9.45										
	3/15/2001	137.60	5.21										
	4/23/2001**	1.74" (0.145 ft) cutoff the top-of-casing, so lid could be properly secured.		142.67									
		Well has not been resurveyed.											
	6/14/2001	133.78	8.89										
	9/18/2001	131.18	11.49										
	11/13/2001	132.19	10.48										
	12/11/2001	137.78	4.89										
	1/15/2002	139.58	3.09										
	2/12/2002	137.22	5.45										
	3/12/2002	137.82	4.85										
	4/16/2002	136.07	6.60										
	5/14/2002	135.28	7.39										
	6/11/2002	134.54	8.13										
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.											
	7/16/2002	133.14	9.53										
	8/13/2002	132.65	10.02										
	12/12/2002	132.44	10.23										
	3/12/2003	136.75	5.92										
	6/11/2003	135.65	7.02										
	9/10/2003	132.84	9.83										
	10/9/2003	System Expansion Startup											
	1/20/2004	NM	NM										
	3/31/2004	NM	NM										
	7/16/2004	NM	NM										
	9/15/2004	NM	NM										

Notes:

* = The depth-to-groundwater measurements collected on 1/20/04 were obtained while the biosparging system was operating.

** = This table reflects the corrected groundwater elevations measured in MW-8 from 6/14/2001 to the present. The elevations are based on the adjusted TOC elevation that was a result of casing cutting on 4/23/2001.

NM = Not measured

Table 2. Groundwater Gradient and Flow Direction

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Date	Groundwater Gradient in ft/ft	Flow Direction from the Tank Area
6/25/1997	0.001	Northwest to Southwest
12/17/1998	0.003	Northwest to Southwest
1/29/1998	0.010	Northwest to Southwest
2/27/1998	0.011	Southwest
3/17/1998	0.014	Southwest to South-Southeast
4/4/1998	0.007	Southwest to South-Southeast
5/29/1998	0.011	Southwest and Northeast
6/18/1998	0.003	Southwest
7/22/1998	0.002	Southwest
8/26/1998	0.002	West to Southwest
9/16/1998	0.002	Northwest
10/20/1998	0.023	Northwest
11/20/1998	0.002	Northwest to Southwest
12/30/1998	0.002	Northwest to West
3/18/1999	0.006	Southwest to West
6/16/1999	0.002	Southwest to Northwest
9/23/1999	0.002	Northwest
12/23/1999	0.002	North 62° West
8/30/2000	0.002	North 71° West
10/25/2000	0.001	North 58° West
12/20/2000	0.002	North 75° West
3/15/2001	0.003	South 59° West
6/14/2001	0.002	North 73° West
9/18/2001	0.004	North 88° West
11/13/2001	0.005	North 62° West
12/11/2001	0.003	North 84° West
1/15/2002	0.004	South 45° West
2/12/2002	0.004	South 24° West
3/12/2002	0.003	South 62° West
4/16/2002	0.002	South 44° East
5/14/2002	0.001	South 87° East
6/11/2002	0.002	North 75° West
7/16/2002	0.003	North 71° West
8/13/2002	0.004	North 53° West
12/12/2002	0.004	West-Northwest
3/12/2003	0.005	West-Southwest
6/11/2003	0.004	West
9/10/2003	0.005	Northwest
3/31/2004	0.007	North-Northeast
7/16/2004	0.002	Northwest
9/15/2004	0.006	Northwest
12/14/2004	0.008	Northwest
3/24/2005	0.010	Northwest
6/16/2005	0.005	South
9/29/2005	0.003	Northwest

Table 3. DO, Nutrients, and Indicator Parameters

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	Dissolved Oxygen	Phosphate	Nitrate as Nitrate	pH	Conductivity	Temperature
		mg/L				uS/cm	°F
M-1	4/23/2002	11.43	<5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.77	565	63.8
	8/12/2002	10.90	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.16	412	72.5
	12/11/2002	10.01	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	7.33	416	63.2
	3/11/2003	10.93	NA	NA	NA	NA	61.0
	3/12/2003	NA	NA	NA	7.5	376	61.7
	6/11/2003	11.20	NA	NA	7.69	385	61.2
	9/10/2003	NA	NA	NA	7.78	388	64.2
	1/20/2004	2.94	NA	NA	NA	NA	NA
	3/30/2004	12.83	NA	NA	NA	NA	NA
	3/31/2004	NA	NA	NA	7.10	399	59.9
	7/1/2004	11.07	NA	NA	NA	NA	NA
	7/16/2004	NA	NA	NA	7.37	436	63.9
	9/14-15/2004	8.57	NA	NA	7.92	408	64.9
	12/13-14/2004	9.88	NA	NA	7.35	561	63.9
	3/22-24/2005	10.46	NA	NA	7.16	364	58.5
	6/15-16/2005	11.47	NA	NA	7.29	324	62.3
	9/28-29/2005	10.71	NA	NA	8.00	405	63.0
M-2	4/23/2002	1.13	<2.5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.65	361	64.0
	8/12/2002	0.79	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	6.69	390	62.7
	12/11/2002	1.57	NA	NA	NA	NA	NA
	3/11/2003	2.08	NA	NA	NA	NA	59.7
	3/12/2003	NA	NA	NA	8.23	309	60.5
	6/11/2003	0.91	NA	NA	NA	NA	NA
	1/20/2004	2.16	NA	NA	NA	NA	NA
	3/30/2004	Well not accessible - car parked on top.					
	3/31/2004	NA	<1.0	9.3	6.55 / 6.83 *	367	60.3
	7/1/2004	0.78	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	5.9	6.7/7.04 *	396	63.7
	9/14-15/2004	1.23	<2.0	11	6.73/6.83 *	509	65.3
	12/13-14/2004	0.93	<0.50	8.0	6.41/6.64 *	456	64.4
	3/22-24/2005	1.99	<0.50	10	6.70	378	60.3
	6/15-16/2005	2.46	NA	NA	NA	NA	NA
	9/28-29/2005	0.62	NA	NA	NA	NA	NA
M-3	4/23/2002	10.55	5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.72	300	66.4
	8/12/2002	5.71	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	6.62	302	62.6
	12/11/2002	8.50	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	7.29	276	64.3
	3/11/2003	10.00	NA	NA	NA	NA	60.6
	3/12/2003	NA	NA	NA	8.90	293	61.7
	6/11/2003	9.60	NA	NA	7.22	310	62.1
	9/10/2003	NA	NA	NA	7.21	315	65.2
	1/20/2004	6.70	NA	NA	NA	NA	NA
	3/30/2004	9.98	NA	NA	NA	NA	NA
	3/31/2004	NA	<1.0	2.5	6.94 / 7.05 *	342	61.3
	7/1/2004	6.32	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	0.92	7.18/7.02 *	349	63.9
	9/14-15/2004	1.40	<2.0	0.80	6.95/7.10 *	345	66.2
	12/13-14/2004	6.82	<0.50	1.1	6.82/5.77 *	318	64.7
	3/22-24/2005	8.33	<0.50	2.8	7.07	375	60.8
	6/15-16/2005	7.35	NA	NA	6.98	334	61.9
	9/28-29/2005	6.28	NA	NA	7.01	332	64.0

Table 3. DO, Nutrients, and Indicator Parameters

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	Dissolved Oxygen	Phosphate	Nitrate as Nitrate	pH	Conductivity	Temperature
		mg/L				uS/cm	°F
M-4	4/23/2002	5.93	5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.18	391	68.4
	8/12/2002	5.8	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.00	355	65.2
	12/11/2002	2.58	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	6.76	397	64.0
	3/11/2003	4.83	NA	NA	NA	NA	61.3
	3/12/2003	NA	NA	NA	9.26	334	62.4
	6/11/2003	2.20	NA	NA	6.70	319	62.8
	9/10/2003	NA	NA	NA	7.02	451	67.2
	1/20/2004	5.55	NA	NA	NA	NA	NA
	3/30/2004	5.23	NA	NA	NA	NA	NA
	3/31/2004	NA	NA	NA	6.72	373	62.1
	7/1/2004	2.36	NA	NA	NA	NA	NA
	7/16/2004	NA	NA	NA	6.89	468	65.8
	9/14-15/2004	0.88	NA	NA	7.31	703	67.3
	12/13-14/2004	3.77	NA	NA	6.80	407	65.3
	3/22-24/2005	4.78	NA	NA	6.52	331	60.8
	6/15-16/2005	1.52	NA	NA	6.63	383	62.8
	9/28-29/2005	2.31	NA	NA	6.94	490	65.3
M-5	4/23/2002	1.22	<5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.25	356	68.2
	8/12/2002	1.75	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.98	458	65.3
	12/11/2002	2.80	NA	NA	NA	NA	NA
	3/11/2003	1.94	NA	NA	NA	NA	59.9
	3/12/2003	NA	NA	NA	9.53	505	61.7
	6/11/2003	1.16	NA	NA	NA	NA	NA
	9/10/2003	NA	NA	NA	6.73	616	62.8
	1/20/2004	4.59	NA	NA	NA	NA	NA
	9/28-29/2005	0.84	NA	NA	NA	NA	NA
M-6	4/23/2002	0.16	<5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	6.72	1184	69.3
	8/12/2002	0.45	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.04	937	70.4
	12/11/2002	0.33	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	6.68	770	65.9
	3/11/2003	0.52	NA	NA	NA	NA	62.8
	3/12/2003	NA	NA	NA	7.5	799	64.8
	6/11/2003	0.45	NA	NA	6.63	978	64.6
	9/10/2003	NA	NA	NA	6.7	1053	67.5
	10/30/2003	0.47	NA	NA	NA	NA	NA
	11/14/2003	0.58	NA	NA	NA	NA	NA
	12/4/2003	0.64	NA	NA	NA	NA	67.4
	12/31/2003	7.40	NA	NA	NA	NA	NA
	1/15/2004	8.53	NA	NA	NA	NA	NA
	1/20/2004	7.44	NA	NA	NA	NA	NA
	3/22/2004	9.86	NA	NA	NA	NA	62.9
	3/30/2004	8.21	NA	NA	NA	NA	NA
	3/31/2004	NA	<1.0	26	6.91 / 7.44 *	768	64.2
	7/1/2004	8.46	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	7	6.94 / 7.07 *	778	66.7
	9/14-15/2004	0.70	<2.0	1.2	7.04 / 7.06 *	804	68.2
	12/13-14/2004	5.59	<0.50	<0.50	6.82 / 6.76 *	679	68.2
	3/22-24/2005	8.31	<0.50	67	7.06	638	64.4
	6/15-16/2005	4.84	<1.0	34	6.83	555	65.3
	9/28-29/2005	4.53	<0.20	9.7	7.21	744	67.8

Table 3. DO, Nutrients, and Indicator Parameters

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	Dissolved Oxygen	Phosphate	Nitrate as Nitrate	pH	Conductivity	Temperature
		mg/L				uS/cm	°F
M-7	4/23/2002	0.39	<5	15	NA	NA	NA
	5/14/2002	NA	NA	NA	6.69	1200	67.6
	8/12/2002	0.37	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	6.99	714	69.9
	12/11/2002	0.46	NA	NA	NA	NA	NA
	3/11/2003	0.49	NA	NA	NA	NA	65.1
	3/12/2003	NA	NA	NA	9.17	962	65.8
	6/11/2003	0.63	NA	NA	NA	NA	NA
	10/30/2003	0.53	NA	NA	NA	NA	NA
	11/14/2003	0.55	NA	NA	NA	NA	NA
	12/4/2004	0.52	NA	NA	NA	NA	69.1
	12/31/2003	0.64	NA	NA	NA	NA	NA
	1/15/2004	3.91	NA	NA	NA	NA	NA
	1/20/2004	4.25	NA	NA	NA	NA	NA
	3/22/2004	4.07	NA	NA	NA	NA	62.9
	3/30/2004	3.60	NA	NA	NA	NA	NA
	3/31/2004	NA	<1.0	150	6.66 / 6.99 *	1209	65.5
	7/1/2004	2.84	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	94	6.61/6.81 *	1050	68.0
	9/14-15/2004	0.60	<2.0	49	6.63/6.80 *	826	69.1
	12/13-14/2004	0.35	<0.50	47	6.65/6.58 *	760	68.7
	3/22-24/2005	0.89	<0.50	65	6.68	822	65.8
	6/15-16/2005	4.71	NA	NA	NA	NA	NA
	9/28-29/2005	0.72	NA	NA	6.72	811	68.7
M-8	4/23/2002	0.42	5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.14	633	65.5
	8/12/2002	0.61	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.14	549	65.5
	12/11/2002	NA	NA	NA	NA	NA	NA
	3/11/2003	NA	NA	NA	NA	NA	NA
	3/12/2003	NA	NA	NA	11.62	573	60.8
	6/11/2003	NA	NA	NA	NA	NA	NA

Notes:

mg/L = milligrams per liter

uS/cm = microSiemens per centimeter

°F = degrees Fahrenheit

NA = Not analyzed

* = Where applicable, both the field and laboratory results for pH are reported as follows (field / lab).

Table 4. Analytical Results of Groundwater Monitoring Well Samples

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes	1,2-dibromo ethane (EDB)	1,2-dichloro ethane (EDC)	5 Oxygenates					Tetra chloro ethene (PCE)	Trichloro ethene (TCE)	cis-1,2-dichloro ethene
									Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Di-isopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	Tert-amyl methyl ether (TAME)			
Water Quality Objectives in ug/L	<50	<1	<42	<29	<17	None	<0.5	<12	<5	None	None	None	None	None	None	None
QA/QC	6/24/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
QA/QC	9/23/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
TB	3/23/1996	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	2/26/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	2/28/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Travel Blank	3/13/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
EB	3/12/1997	<50	<0.30	0.58	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	6/27/1997	<50	<0.30	0.42	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
QA	6/26/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Drums	3/12/1997	2,700	43	16	100	180	NA	NA	NA	NA	NA	NA	NA	^	^	^
Drum	6/27/1997	<50	0.48	<0.30	<0.50	2	NA	NA	NA	NA	NA	NA	NA	^	^	^
Drum	12/18/1997	92	1.2	0.35	4.6	5	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	<0.50	NA	NA	NA	NA	^	^	^
Trip Blank	12/30/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Drum	3/18/1999	190	<0.50	<0.50	5	4	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	3/18/1999	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	6/16/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	12/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	12/20/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	3/15/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	6/14/2001	<50	<0.30	0.36	<0.50	0.67	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	5/14/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	8/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	12/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	3/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	6/11/2003	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	9/10/2003	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^	^	^
Trip Blank	3/31/2004	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	^	^	^

Notes:

TPH-G = Denotes total petroleum hydrocarbons quantified as gasoline, analyzed by EPA Method 8015.

VC = Vinyl chloride detected at 1.4 ug/L.

<x = denotes analyte not detected at, or above the detection limit of x.

NA = Denotes not analyzed; well M-2 was not accessible on March 18, 1995.

^ = Concentrations of the non target constituents detected prior to 2/12/02 are not included in the table. The detection limit of the non target constituents are not available on the laboratory report.

^^ = Non target constituents not detected. The detection limits are not provided on the laboratory report.

= Samples were collected immediately prior to re-start after system had been shutdown for 51 days.

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
10/13/00	SP-1	1 Min	37.2	20	6.4
	SP-2			12	1.6
	SP-3			14	1.2
	SP-4			23	<1.0
	SP-5			13	<1.0
	SP-6			17	1.4
	SP-7			10	2.0
	SP-8			15	<1.0
10/18/00	SP-1	1 Min	54.7	20	1.9
	SP-2			15	3.1
	SP-3			20	3.6
	SP-4			20	<1.0
	SP-5			20	6.6
	SP-6			25	5.8
	SP-7			10	2.4
	SP-8			20	2.0
10/19/00	SP-1	1 Min	67.9	15	5.0
	SP-2			15	3.4
	SP-3			20	4.7
	SP-4			20	1.9
	SP-5			25	6.0
	SP-6			25	5.6
	SP-7			10	2.4
	SP-8			20	3.3
10/20/00	SP-1	1 Min	82.4	15	6.5
	SP-2			15	3.4
	SP-3			20	5.2
	SP-4			20	2.0
	SP-5			25	6.2
	SP-6			25	6.2
	SP-7			10	2.6
	SP-8			20	3.5
10/24/00	SP-1	1 Min	147	10	3.0
	SP-2			15	3.5
	SP-3			15	2.5
	SP-4			20	2.0
	SP-5			20	4.4
	SP-6			20	4.0
	SP-7			10	2.4
	SP-8			20	2.7
10/26/00	SP-1	1 Min	151.1	13	<1.0
	SP-2			15	3.5
	SP-3			15	2.7
	SP-4			20	2.1
	SP-5			20	4.3
	SP-6			20	4.0
	SP-7			10	2.5
	SP-8			20	3.1
10/27/00	SP-1	1 Min	158.3	10	1.4
	SP-2			15	3.8
	SP-3			15	2.8
	SP-4			20	2.4
	SP-5			20	4.3
	SP-6			20	4.0
	SP-7			10	2.6
	SP-8			20	2.9
10/30/00	SP-1	1 Min	174.5	10	1.3
	SP-2			15	3.2
	SP-3			15	2.5
	SP-4			20	2.6
	SP-5			20	1.5
	SP-6			20	3.5
	SP-7			10	2.5
	SP-8			20	3.0
11/13/00	System Failure. Compressor broke and system was shutdown until arrival of new compressor				

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
12/07/00	System Restarted				
	SP-1	1 Min	290.2	10	1.7
	SP-2			15	3.3
	SP-3			15	2.6
	SP-4			20	2.2
	SP-5			20	<1.0
	SP-6			20	3.4
	SP-7			10	1.5
	SP-8			20	3.8
12/11/00	SP-1	1 Min	304	10	2.1
	SP-2			15	3.2
	SP-3			15	2.4
	SP-4			20	<1.0
	SP-5			NM	NM
	SP-6			20	2.8
	SP-7			10	1.7
	SP-8			20	2.5
12/20/00	System was shut down from 12-20 to 12-21 for QM event.				
12/21/00	SP-1	1 Min	328	10	<1.0
	SP-2			15	3.3
	SP-3			15	2.5
	SP-4			20	2.8
	SP-5			15	2.0
	SP-6			20	3.0
	SP-7			10	1.7
	SP-8			20	1.6
01/04/01	SP-1	1 Min	373.8	10	2.0
	SP-2			15	3.1
	SP-3			15	2.5
	SP-4			20	2.5
	SP-5			15	2.0
	SP-6			20	2.9
	SP-7			10	1.7
	SP-8			20	NM
01/12/01	SP-1	1 Min	396.4	12	1.2
	SP-2			15	3.0
	SP-3			15	2.5
	SP-4			20	2.5
	SP-5			15	1.9
	SP-6			20	2.6
	SP-7			10	1.4
	SP-8			20	2.1
01/25/01	SP-1	1 Min	441.7	10	2.0
	SP-2			15	2.6
	SP-3			15	2.2
	SP-4			20	2.3
	SP-5			15	1.7
	SP-6			20	2.3
	SP-7			10	1.3
	SP-8			20	2.1
02/16/01	SP-1	1 Min	502	13	1.1
	SP-2			15	3.2
	SP-3			15	2.0
	SP-4			20	1.8
	SP-5			15	1.6
	SP-6			20	3.1
	SP-7			10	1.3
	SP-8			15	3.6
03/26/01	SP-1	1 Min	647.3	13	1.1
	SP-2			15	3.4
	SP-3			15	2.4
	SP-4			20	2.5
	SP-5			20	2.6
	SP-6			20	2.7
	SP-7			12	1.5
	SP-8			17	2.6

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
04/10/01	SP-1	1 Min	717	12	1.0
	SP-2			15	3.0
	SP-3			15	2.5
	SP-4			20	2.3
	SP-5			15	2.4
	SP-6			20	2.6
	SP-7			10	1.7
	SP-8			15	2.4
05/04/01	SP-1	2 Min	810	12	1.5
	SP-2			15	3.0
	SP-3			15	2.4
	SP-4			20	2.5
	SP-5			15	2.8
	SP-6			20	2.6
	SP-7			10	2.1
	SP-8			15	2.6
05/07/01	SP-1	2 Min	835.5	12	1.7
	SP-2			15	3.3
	SP-3			20	2.8
	SP-4			20	2.7
	SP-5			15	2.9
	SP-6			20	3.0
	SP-7			10	1.9
	SP-8			20	2.3
05/21/01	SP-1	2 Min	901	12	1.7
	SP-2			15	3.8
	SP-3			15	2.5
	SP-4			20	2.6
	SP-5			15	3.2
	SP-6			20	3.3
	SP-7			10	2.0
	SP-8			15	2.6
06/08/01	SP-1	2 Min	996	12	1.8
	SP-2			15	4.3
	SP-3			15	2.8
	SP-4			20	3.2
	SP-5			15	3.0
	SP-6			20	3.0
	SP-7			10	2.4
	SP-8			15	3.5
07/02/01	SP-1	2 Min	1130	10	2.2
	SP-2			12	3.8
	SP-3			15	3.4
	SP-4			15	3.4
	SP-5			15	3.2
	SP-6			20	3.0
	SP-7			10	2.2
	SP-8			15	2.8
07/23/01	SP-1	2 Min	1198	12	2.4
	SP-2			15	5.2
	SP-3			20	3.5
	SP-4			20	3.2
	SP-5			20	4.0
	SP-6			20	4.4
	SP-7			10	2.3
	SP-8			15	4.0
08/08/01	SP-1	2 Min	1317	12	2.1
	SP-2			15	4.1
	SP-3			15	2.9
	SP-4			20	3.4
	SP-5			15	3.0
	SP-6			20	4.1
	SP-7			10	2.0
	SP-8			15	3.6

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
08/22/01	SP-1	2 Min	1387	10	2.6
	SP-2			15	4.8
	SP-3			15	2.9
	SP-4			20	3.4
	SP-5			15	2.5
	SP-6			20	4.0
	SP-7			10	2.2
	SP-8			15	3.0
10/10/01	SP-1	2 Min	1657	12	2.8
	SP-2			10	3.0
	SP-3			15	2.5
	SP-4			17	3.0
	SP-5			15	3.8
	SP-6			15	3.8
	SP-7			10	3.0
	SP-8			15	2.6
11/25/01	SP-1	2 Min	1819	15	2
	SP-2			14	2.2
	SP-3			15	2.4
	SP-4			13	2.6
	SP-5			15	2.6
	SP-6			15	2.4
	SP-7			14	2.4
	SP-8			12	2.4
12/04/01	SP-1	2 Min	1853.2	15	2.2
	SP-2			14	2.2
	SP-3			15.5	2
	SP-4			15	2.2
	SP-5			15	2.4
	SP-6			15.5	2.4
	SP-7			14	2.4
	SP-8			14	2.3
01/02/02	SP-1	2 Min	1958.7	16	1.7
	SP-2			14	2.2
	SP-3			15	2
	SP-4			15	2
	SP-5			15	1.8
	SP-6			18	1.8
	SP-7			14	2
	SP-8			15	1.6
01/13/02	SP-1	2 Min	---	15	1.8
	SP-2			14	2.2
	SP-3			15	2
	SP-4			15	2
	SP-5			15	1.8
	SP-6			17	2
	SP-7			15	2
	SP-8			15	1.8
02/28/02	SP-1	2 Min	2104.5	15	1.6
	SP-2			12	1.8
	SP-3			15	1.7
	SP-4			15	1.6
	SP-5			13	1.8
	SP-6			15	1.8
	SP-7			13	1.8
	SP-8			10	1.8
03/20/02	SP-1	2 Min	2143.5	20	2
	SP-2			20	2
	SP-3			20	2
	SP-4			20	2
	SP-5			20	2
	SP-6			20	2
	SP-7			20	2
	SP-8			20	2

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
04/03/02	SP-1	2 Min	2184.9	20	1.8
	SP-2			20	2
	SP-3			20	2
	SP-4			20	2.2
	SP-5			20	2
	SP-6			20	2
	SP-7			20	2
	SP-8			20	2.4
04/23/02	SP-1	2 Min	2240.4	20	2.0
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.0
	SP-6			20	2.2
	SP-7			20	2.0
	SP-8			20	2.2
05/13/02	SP-1	2 Min	2306.5	20	2.0
	SP-2			20	2.2
	SP-3			20	2.4
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.4
	SP-7			20	2.2
	SP-8			20	2.2
05/30/02	SP-1	2 Min	2357.3	20	2.0
	SP-2			19	2.0
	SP-3			20	2.3
	SP-4			19	2.4
	SP-5			20	1.9
	SP-6			19	2.1
	SP-7			20	2.1
	SP-8			19	2.0
06/10/02	SP-1	2 Min	2390.8	20	2.0
	SP-2			19	2.1
	SP-3			20	2.7
	SP-4			20	2.5
	SP-5			20	2.0
	SP-6			19	2.1
	SP-7			20	2.1
	SP-8			20	0.4
06/19/02	System failure - system shut down. 3/8" nipple from the compressor piston head to the tank had snapped.				
08/09/02	System Restarted				
08/09/02	SP-1	2 Min	2419.8	20	2.0
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
08/12/02	SP-1	2 Min	2429.4	20	2.4
	SP-2			19	2.3
	SP-3			20	2.3
	SP-4			20	2.3
	SP-5			20	2.3
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8			18	2.7
System shutdown for QM event					

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
08/13/02	System Restarted				
	SP-1	2 Min	2429.5	20	2.3
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			19	2.0
	SP-5			20	2.2
	SP-6			19	2.2
	SP-7			20	2.2
	SP-8			20	1.9
08/28/02	SP-1	2 Min	2486.3	20	2.1
	SP-2			20	2.1
	SP-3			20	2.1
	SP-4			20	1.8
	SP-5			20	2.2
	SP-6			20	2.1
	SP-7			20	2.1
	SP-8			20	2.2
10/02/02	SP-1	2 Min	2620.8	20	2.4
	SP-2			20	2.6
	SP-3			20	2.4
	SP-4			20	2.2
	SP-5			20	2.4
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
10/16/02	SP-1	2 Min	2664.6	20	2.2
	SP-2			20	2.2
	SP-3			20	2.0
	SP-4			20	2.0
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
11/01/02	SP-1	2 Min	2720.4	20	2.2
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
11/20/02	SP-1	2 Min	2788.0	20	2.2
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.4
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
12/02/02	SP-1	2 Min	2831.7	20	2.4
	SP-2			20	2.4
	SP-3			20	2.4
	SP-4			20	2.4
	SP-5			20	2.4
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8		2831.8	20	2.4
12/11/02	DO Measured in wells and system shutdown for QM event.				
12/12/02	SP-1	2 Min	2864.9	20	2.4
	SP-2			20	2.4
	SP-3			20	2.4
	SP-4			20	2.4
	SP-5			20	2.4
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8			20	2.4

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
01/03/03	SP-1	2 Min	2949.2	20	2.2
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
01/14/03	SP-1	2 Min	2987.4	20	2.4
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
02/06/03	SP-1	2 Min	3054.9	20	2.4
	SP-2			20	2.4
	SP-3			20	2.4
	SP-4			20	2.4
	SP-5			20	2.4
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8			20	2.4
03/03/03	SP-1	2 Min	3128.6	20	2.4
	SP-2			20	2.4
	SP-3			20	2.4
	SP-4			20	2.4
	SP-5			20	2.4
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8			20	2.4
03/19/03	SP-1	2 Min	3174.2	20	2.2
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
04/18/03	SP-1	2 Min	3250.1	20	2.2
	SP-2			20	2.2
	SP-3			20	2.2
	SP-4			20	2.2
	SP-5			20	2.2
	SP-6			20	2.2
	SP-7			20	2.2
	SP-8			20	2.2
05/20/03	SP-1	2 Min	3336.8	20	2.0
	SP-2			20	2.0
	SP-3			20	2.0
	SP-4			20	2.0
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
06/16/03	SP-1	2 Min	3404.9	20	2.0
	SP-2			20	2.0
	SP-3			20	2.0
	SP-4			20	2.0
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
06/30/03	SP-1	2 Min		20	2.0
	SP-2			20	2.0
	SP-3			20	2.0
	SP-4			20	2.0
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
07/15/03	SP-1	2 Min	3446.5	---	---
	SP-2			---	---
	SP-3			---	---
	SP-4			---	---
	SP-5			20	2.2
	SP-6			20	1.8
	SP-7			20	2.0
	SP-8			20	2.4
Note: Sparge Points SP-1 through SP-4 were turned off per the Remedial Action Plan Addendum dated 5/27/03. SP-8 was left on due to the detection of COCs in M-1 on 3/12/03 and 6/11/03.					
07/30/03	SP-1	2 Min	3446.5	---	---
	SP-2			---	---
	SP-3			---	---
	SP-4			---	---
	SP-5			20	2.2
	SP-6			20	1.8
	SP-7			20	2.0
	SP-8			20	2.4
09/09/03	SP-1	2 Min	3479.5	---	---
	SP-2			---	---
	SP-3			---	---
	SP-4			---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
Note: Sparge Points SP-9 through SP-11 were installed on July 30, 2003 and placed into service on October 9, 2003.					
10/30/03	SP-4	2 Min	3551.5	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			25	2.4
	SP-10			25	2.4
	SP-11			25	2.4
11/14/03	SP-4	2 Min	3583.1	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			20	2.0
	SP-10			20	2.0
	SP-11			20	2.0
12/04/03	SP-4	2 Min	3626.0	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			20	2.0
	SP-10			20	2.0
	SP-11			20	2.0
12/15/03	SP-4	2 Min	3654.4	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			20	2.0
	SP-10			20	2.0
	SP-11			20	2.0

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
12/31/03	SP-4	2 Min	3680.9	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			20	2.0
	SP-10			20	2.0
	SP-11			20	2.0
01/15/04	SP-4	2 Min	3712.4	---	---
	SP-5			20	2.0
	SP-6			20	2.0
	SP-7			20	2.0
	SP-8			20	2.0
	SP-9			20	2.0
	SP-10			20	2.0
	SP-11			20	2.0
02/11/04	SP-4	2 Min	3716.2	---	---
	SP-5			20	2.4
	SP-6			20	2.4
	SP-7			20	2.4
	SP-8			20	2.4
	SP-9			20	2.4
	SP-10			20	2.4
	SP-11			20	2.4
02/25/04	SP-4	2 Min	3712.4	---	---
	SP-5			25	2.6
	SP-6			25	2.6
	SP-7			25	2.6
	SP-8			25	2.6
	SP-9			25	2.6
	SP-10			25	2.6
	SP-11			25	2.6
03/22/04	SP-4	2 Min	3810.7	---	---
	SP-5			25	2.6
	SP-6			25	2.6
	SP-7			25	2.6
	SP-8			25	2.6
	SP-9			25	2.8
	SP-10			25	2.8
	SP-11			25	2.8
03/30/04	SP-4	2 Min	3829.1	---	---
	SP-5			25	2.6
	SP-6			25	2.4
	SP-7			25	2.6
	SP-8			25	2.6
	SP-9			25	3.0
	SP-10			25	3.0
	SP-11			25	3.0
05/05/04	SP-4	2 Min	3906.5	---	---
	SP-5			25	2.8
	SP-6			25	2.6
	SP-7			25	2.6
	SP-8			25	2.8
	SP-9			25	3.0
	SP-10			25	3.0
	SP-11			25	3.0
05/25/04	SP-4	2 Min	3951.6	---	---
	SP-5			25	2.7
	SP-6			25	2.5
	SP-7			25	2.3
	SP-8			25	2.5
	SP-9			25	2.1
	SP-10			25	2.9
	SP-11			25	2.7
Nutrient Injection for SP-9, SP-10, and SP-11.					

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*		
07/01/04	SP-4	2 Min	4021.8	---	---		
	SP-5			25	2.0		
	SP-6			25	2.0		
	SP-7			NM	NM		
	SP-8			25	2.0		
	SP-9			25	NM		
	SP-10			25	2.2		
	SP-11			25	2.2		
07/16/04	SP-4	2 Min	4022.7	---	---		
	SP-5			NM	NM		
	SP-6			NM	NM		
	SP-7			15	1.8		
	SP-8			NM	NM		
	SP-9			NM	NM		
	SP-10			20	2.0		
	SP-11			NM	NM		
Lowered SP-10 pressure from 25 psi to 20 psi due to silt in M-6							
07/27/04	SP-4			---	---		
	SP-5			20	2.0		
	SP-6			20	2.0		
	SP-7			15	2.0		
	SP-8			20	2.0		
	SP-9			25	2.0		
	SP-10			20	2.0		
	SP-11			25	2.0		
08/24/04	SP-4	2 Min	4088.1	---	---		
	SP-5			20	2.0		
	SP-6			20	2.0		
	SP-7			15	2.0		
	SP-8			20	2.0		
	SP-9			25	2.0		
	SP-10			20	2.0		
	SP-11			25	2.0		
09/14/04	SP-4	2 Min	4111.6	---	---		
	SP-5			25	2.0		
	SP-6			25	2.0		
	SP-7			15	1.8		
	SP-8			25	2.0		
	SP-9			25	2.0		
	SP-10			20	2.0		
	SP-11			No readings.			
DO measured and system shutdown for QM event.							
09/15/04	System restarted post QM event.						
09/20/04	Pressure valve for SP-11 was turned too low, hence no readings. Increased pressure.						
	SP-4	2 Min	4118.2	---	---		
	SP-5			25	2.0		
	SP-6			25	2.0		
	SP-7			25	2.0		
	SP-8			25	2.0		
	SP-9			25	2.0		
	SP-10			20	2.0		
09/22/04	SP-11			25	2.2		
	SP-4	2 Min	4122	---	---		
	SP-5			20	2.0		
	SP-6			25	2.0		
	SP-7			25	2.0		
	SP-8			25	2.0		
	SP-9			25	2.0		
	SP-10			20	2.0		
10/06/04	SP-11			25	2.2		
	SP-4	2 Min	4145.7	---	---		
	SP-5			25	2.0		
	SP-6			25	2.0		
	SP-7			25	2.0		
	SP-8			25	2.0		
	SP-9			25	2.0		
	SP-10			25	2.0		
10/06/04	SP-11			25	2.0		

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
10/15/04	SP-4	2 Min	4160.7	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
11/02/04	SP-4	2 Min	4192.9	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
11/17/04	SP-4	2 Min	4218.6	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
12/03/04	SP-4	2 Min	4246.0	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
12/13/2005 DO measured and system shutdown for QM event					
12/14/04	System start-up post QM event				
	SP-4	2 Min	4262.6	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
01/03/05	SP-4	2 Min	4298.4	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
01/19/05	SP-4	2 Min	4327.8	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
02/01/05	SP-4	2 Min	4351.6	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
3/23/2005	DO measured and system shutdown for QM event.				
03/24/05	System start-up post QM event.				
	SP-4	2 Min	4444.5	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.2
	SP-11			25	2.4
05/04/05	SP-4	2 Min	4521.2	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
05/17/05	SP-4	2 Min	4543.6	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
06/09/05	SP-4	2 Min	4583.1	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
06/15/05	SP-4	2 Min	4626.8	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
DO measured and system shutdown for QM event.					
6/16/2005	QM event and system start-up.				
07/21/05	SP-4	2 Min	4654.9	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
08/08/05	SP-4	2 Min	4685.3	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
08/23/05	SP-4	2 Min	4711.4	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0

Table 5. Operation and Maintenance Data

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

Date	Sparge Point Number	Sequencing Time Per Point	Cumulative Hour Meter Reading	Max P.S.I. Setting	A.C.F.M.*
09/07/05	SP-4	2 Min	4737.0	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
9/28/2005	DO measured and system shutdown for QM event.				
09/29/05	System start-up post QM event.				
	SP-4	2 Min	4774.3	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
10/06/05	SP-4	2 Min	4785.7	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0
10/20/05	SP-4	2 Min	4810.0	---	---
	SP-5			25	2.0
	SP-6			25	2.0
	SP-7			25	2.0
	SP-8			25	2.0
	SP-9			25	2.0
	SP-10			25	2.0
	SP-11			25	2.0

Notes:

SP = Sparge Point

P.S.I = Pounds Per Square Inch

A.C.F.M = Actual Cubic Feet Per Minute

* = A.C.F.M. readings after 10/10/01 is the setting after adjustment.

--- = Sparge points turned off

DO = Dissolve Oxygen

NM = Not measured

QM = Quarterly Monitoring

Sequencing time of 2 minutes per point is for testing purposes only. Normal operation time is 20 minutes per point.

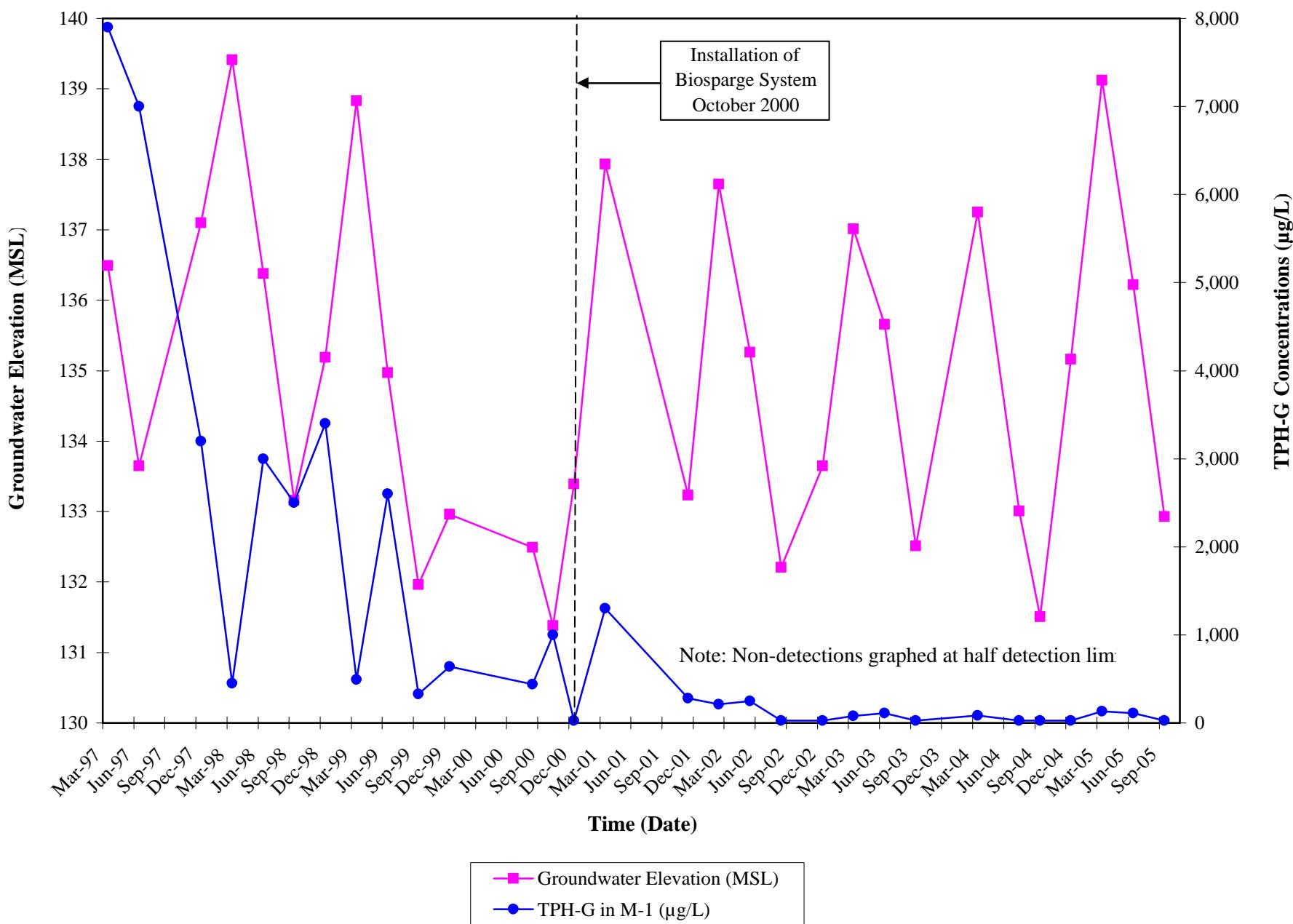
Table 6. Monitoring Well Sampling Schedule

Former Exchange Bank Site
330 Sebastopol Road Santa Rosa, CA

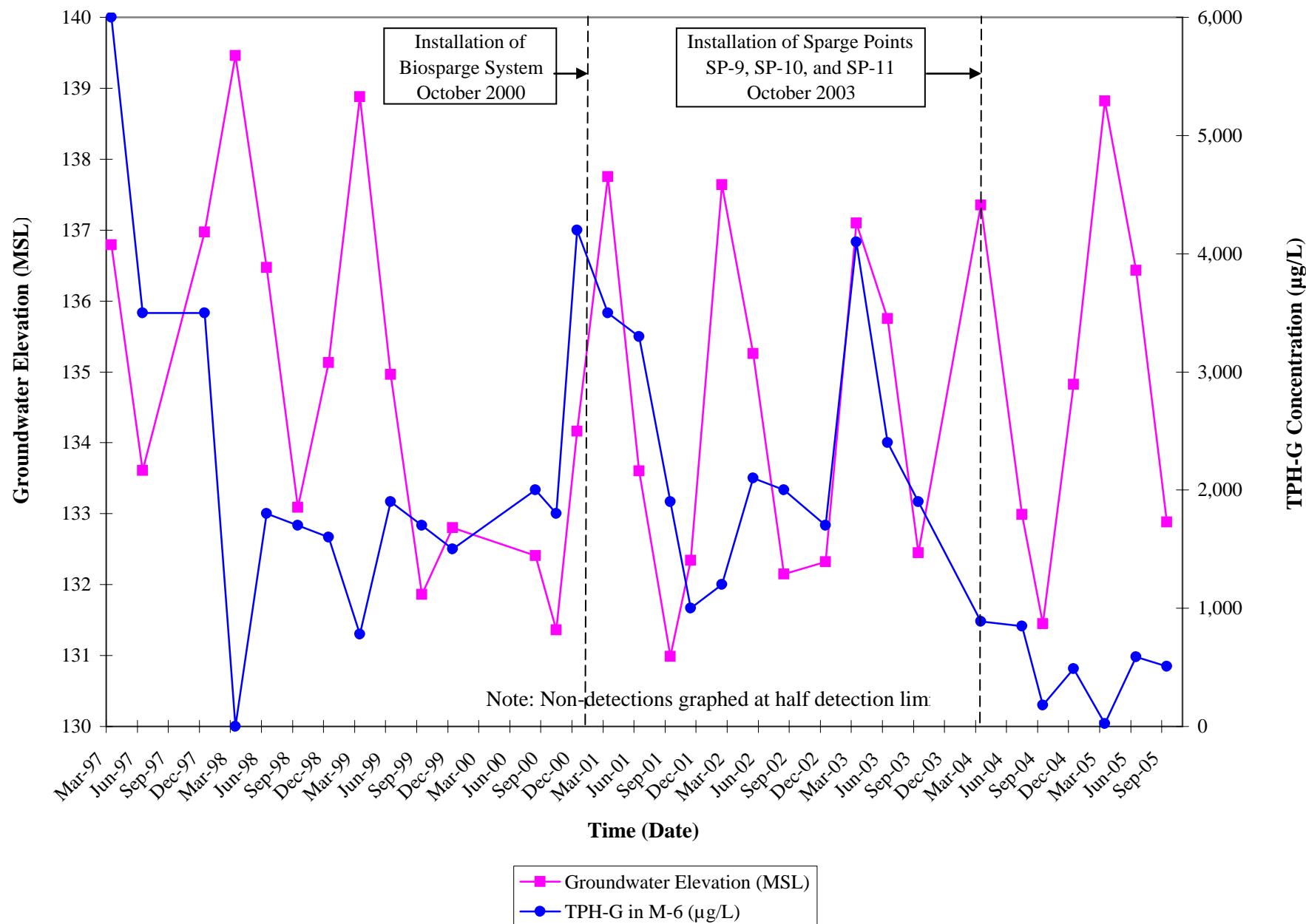
Monitoring Wells	Sampling Frequency During Verification (12/05 - 9/06)	Basis for Frequency
M-1	Quarterly	In plume, next to former UST.
M-2	Quarterly	Historically non-detect.
M-3	Quarterly	Historically contaminated downgradient well.
M-4	Quarterly	Historically contaminated downgradient well.
M-5	Discontinue Sampling	Upgradient well with only chlorinated solvent plume contaminants.
M-6	Quarterly	Historically contaminated downgradient well.
M-7	Quarterly	Upgradient well historically non-detect.
M-8	Discontinue Sampling	Downgradient well historically non-detect.
DW-630	Discontinue Sampling	Downgradient well with only chlorinated solvent plume contaminants.
DW-674	Discontinue Sampling	Downgradient well with only chlorinated solvent plume contaminants.
DW-437	Discontinue Sampling	Outside of plume with only chlorinated solvent contaminants.

Graphs

Graph 1 - TPH-G Concentrations vs. Groundwater Elevations Over Time in M-1



Graph 2 - TPH-G Concentrations vs. Groundwater Elevations Over Time in M-6



Appendix A
Site-Specific Sampling Procedures

WINZLER & KELLY CONSULTING ENGINEERS

Site-Specific Groundwater Sampling Procedures Former Exchange Bank Data Center 330 Sebastopol Road Santa Rosa, California September 28 and 29, 2005

1. Objective

Collect representative water level data and groundwater samples.

2. Background

Based on the analytical results of the previous sampling, field work proceeded from the monitoring wells in which the samples collected had the lowest concentrations of constituents to the wells that had the highest concentrations of constituents.

Water levels were collected to determine the direction and gradient of groundwater flow. Representative groundwater samples from the water-bearing zone were obtained using disposable polyethylene bailers following purging.

3. Personnel Required and Responsibilities

Winzler & Kelly Technicians: Trevor White and Pon Xayasaeng performed groundwater monitoring and sampling activities in accordance with the procedures outlined below.

4. Procedures

4a. Biosparge System Shutdown and DO Concentrations, September 28, 2005

- The membrane on the YSI Model 55 DO meter was checked for the presence of bubbles and wrinkles, neither of which was observed.
- The meter was calibrated in the field prior to collecting measurements.
- Using the calibrated YSI Model 55 DO Meter, DO concentrations were measured in each monitoring well (except for M-8) while the biosparge system was operating.
- Following DO measurements, the biosparge system was shutdown to allow groundwater to equilibrate.

4b. Decontamination Procedures, September 29, 2005

- Using alconox soap and potable water, all equipment and instruments to be used were decontaminated upon arriving at the site.
- All equipment and instruments were decontaminated after use in each well.
- All equipment and instruments were decontaminated after field activities had been completed.

- Nitrile gloves were worn by sampler at all times and changed after handling equipment and instruments.

4c. Calibration Procedures, September 29, 2005

- The Ultrameter was calibrated for conductivity and pH. Temperature calibration is not necessary in the Ultrameter.
- Conductivity was calibrated using KCl-7000 standard solution within its expiration date.
- The calibration for pH included “zeroing” the Ultrameter with a pH 7 buffer solution followed by adjusting the gain with acid and base buffers (4.01 and 10.00). All buffer solutions were within their expiration date.

4c. Groundwater Elevations, September 29, 2005

- Opened all monitoring wells to be measured and removed expandable caps. Allowed wells to equilibrate for a minimum of 30 minutes.
- A water level meter was used to determine the depth-to-groundwater in each monitoring well.
- Recorded depth, time, and visual observations regarding well access, condition, security, etc. on water level data sheet.

4d. Purging, September 29, 2005

- The volume of standing water in each monitoring well was calculated using the diameter of the well, the measured depth-to-water, and the depth-to-bottom. The volume was recorded on the Well Sampling Data Sheet for each well.
- Each monitoring well (except for M-2, M-5, and M-8) was purged using a 12-volt DC 1.5-inch electric submersible pump.
- Field parameters (pH, conductivity, and temperature) were obtained with the Ultrameter and visual observations of color/odor/turbidity at each well casing interval throughout the purging process.
- The time, readings, and visual comments were recorded on the Well Sampling Data Sheet.
- Each well was purged until field parameters stabilized, not exceeding 7 casing volumes, or until the well de-watered.
- The electric submersible pump was decontaminated after each use.
- All excess water was transferred to 55-gallon drums labeled and secured on site.

4e. Groundwater Sample Collection, September 29, 2005

- Groundwater samples were collected by lowering previously unused, disposable, polyethylene, bottom-filling bailers into the well once the water level had recharge to at least 80%.
- When completely full, the bailer was carefully retracted from the well and the groundwater was transferred from the bailers to the appropriate certified clean sampling containers.
- Groundwater transferred into 40-ml glass vials were preserved with HCl.
- Upon filling, each vial was immediately capped. The vial was checked for air

- bubbles by inverting and gently tapping the vial.
- All sample containers were labeled with the following information:

Sample ID	Date and Time Sample Collected
Location	Sampler's Initials
Project Number	
 - Sample information was documented on a chain-of-custody form.
 - All sample containers were placed in an ice chest chilled with ice.
 - Upon completion of the sampling activities, each well was closed and secured by replacing the well cap and securing the lock.

5. Equipment Used:

- Disposable gloves
- Potable water
- Alconox soap
- Containers to hold rinsate water
- Scrub brushes
- Tools to open wells
- Keys to wells
- Water Level Data Form/pencil
- Well Sampling Data Sheet
- Groundwater Sampling Log form
- Water level meter
- 12-volt DC 1.5-inch electric submersible pump
- UltraMeter
- Containers to hold extracted water (as required)
- Disposable bailers (previously unused)
- Monofilament nylon line (50 lb test)
- Scissors
- Laboratory supplied sample containers (preserved, as required)
- Sample labels
- Ice chest
- Ice
- Labels/indelible marker
- Trash bags
- 55-gallon drums
- Ziploc bags
- Portable 12-V battery

Appendix B
Well Sampling Data Sheets

PROJECT NAME: Former Exchange Bank
PROJECT NUMBER: 0270805001, 32001
WELL DESIGNATION: M-1PROJECT DATE: 9/28/05
SAMPLER: Pon Xayraseng
SAMPLE NUMBER: M-1

CONDITION OF WELL HEAD/VAUTL/CAP & LOCK:

- A. TOP OF CASING ELEVATION:
B. DEPTH TO GROUNDWATER (initial): 12.03'
C. DEPTH OF WELL: 25' MEASURED _____
D. HEIGHT OF WATER COLUMN (C-B):
E. GROUNDWATER ELEVATION (A-B):

CASING DIAMETER: 2" 3" 4" X OTHER _____CALCULATED WELL VOLUME: D X V = (25 - 12.03)(0.653) = 8.5 gal
Volume (V) of 2" well - 0.163 gal/ft
Volume (V) of 4" well - 0.653 gal/ftODOR NO SHEEN NO FLOATING PRODUCT THICKNESS NOPUMP TYPE: POLY BAILER _____ STAINLESS BAILER _____
ELECTRIC X' OTHER _____

PUMP DEPTH:

TIME	GALLONS PURGED	NO. OF WELL VOLUMES	pH	TEMPERATURE (°F OR °C)	CONDUCTIVITY (mmhos/cm or μ mhos/cm)	TURBIDITY (NTU or visual)	OPP (mV)
8.5	1	8.00	17.1	415.0	Clear	102	
17.0	2	8.00	17.2	405.3	clear	142	
25.5	3	dewatered					

RECHARGE RATE (qualitative):

SAMPLER TYPE: TEFILON BAILER _____ ACRYLIC BAILER _____ DISPOSABLE BAILER _____

SAMPLES COLLECTED: PRESERVED VOA'S _____ UNPRESERVED VOA'S _____
PRESERVED LITERS _____ UNPRESERVED LITERS _____
500 ml PLASTIC BOTTLE WITH PRESERVATIVE FOR METALS:
FILTERED _____ UNFILTERED _____
OTHER _____

COMMENTS: _____

WELL SAMPLING DATA SHEET

PROJECT NAME: Former Exchange Bank
PROJECT NUMBER: 027.080500P.32001
WELL DESIGNATION: M-3

PROJECT DATE: 9/28/05
SAMPLER: Pon Xaylaosaleng
SAMPLE NUMBER: M-3

CONDITION OF WELL HEAD/VAULT/CAP & LOCK:

- A. TOP OF CASING ELEVATION:
- B. DEPTH TO GROUNDWATER (initial): 10.46'
- C. DEPTH OF WELL: 20' MEASURED _____
- D. HEIGHT OF WATER COLUMN (C-B):
- E. GROUNDWATER ELEVATION (A-B):

CASING DIAMETER: 2" X 3" _____ 4" _____ OTHER _____

CALCULATED WELL VOLUME: $D \times V = (20 - 10.46)(0.163) = 1.6 \text{ gal}$
 Volume (V) of 2" well - 0.163 gal/ft
 Volume (V) of 4" well - 0.653 gal/ft

ODOR No SHEEN No FLOATING PRODUCT THICKNESS No

PUMP TYPE: POLY BAILER STAINLESS BAILER
ELECTRIC X OTHER _____

PUMP DEPTH:

TIME	GALLONS PURGED	NO. OF WELL VOLUMES	pH	TEMPERATURE (°F OR °C)	CONDUCTIVITY (mmhos/cm or µmhos/cm)	TURBIDITY (NTU or visual)	OF P (mv)
1.6	1	7.17	17.6	347.3	Clear	129	
3.2	2	7.18	17.8	329.8	clear	138	
4.8	3	7.01	17.8	332.4	clear	146	

RECHARGE RATE (qualitative):

SAMPLER TYPE: TEFILON BAILER _____ ACRYLIC BAILER _____ DISPOSABLE BAILER _____

SAMPLES COLLECTED: PRESERVED VOA'S _____ UNPRESERVED VOA'S _____
 PRESERVED LITERS _____ UNPRESERVED LITERS _____
 500 ml PLASTIC BOTTLE WITH PRESERVATIVE FOR METALS:
 FILTERED _____ UNFILTERED _____
 OTHER _____

COMMENTS: _____

PROJECT NAME: Former Exchange Bank
PROJECT NUMBER: 027080500P 32001
WELL DESIGNATION: M - 4PROJECT DATE: 9/28/05
SAMPLER: Pon Xayvosaeng
SAMPLE NUMBER: M - 4

CONDITION OF WELL HEAD/VAULT/CAP & LOCK:

- A. TOP OF CASING ELEVATION:
 B. DEPTH TO GROUNDWATER (initial): 10.80'
 C. DEPTH OF WELL: 15' MEASURED _____
 D. HEIGHT OF WATER COLUMN (C-B):
 E. GROUNDWATER ELEVATION (A-B):

CASING DIAMETER: 2" 3" 4" OTHER _____CALCULATED WELL VOLUME: D X V = (15-10.80)(0.163) = 0.7 gal
 Volume (V) of 2" well - 0.163 gal/ft
 Volume (V) of 4" well - 0.653 gal/ftODOR No SHEEN No FLOATING PRODUCT THICKNESS NoPUMP TYPE: POLY BAILER
 ELECTRIC STAINLESS BAILER _____
 OTHER _____

PUMP DEPTH:

TIME	GALLONS PURGED	NO. OF WELL VOLUMES	pH	TEMPERATURE (°F OR °C)	CONDUCTIVITY (mmhos/cm or μmhos/cm)	TURBIDITY (NTU or visual)	ORP (mV)
0.7	1	6.88	17.4	604.0	clear	43	
1.4	2	6.92	18.4	500.2	clear	47	
2.1	3	6.94	18.5	490.4	clear	119	

RECHARGE RATE (qualitative):

SAMPLER TYPE: TEFLOM BAILER _____ ACRYLIC BAILER _____ DISPOSABLE BAILER _____

SAMPLES COLLECTED: PRESERVED VOA'S _____ UNPRESERVED VOA'S _____
 PRESERVED LITERS _____ UNPRESERVED LITERS _____
 500 ml PLASTIC BOTTLE WITH PRESERVATIVE FOR METALS:
 FILTERED _____ UNFILTERED _____
 OTHER _____

COMMENTS: _____

PROJECT NAME: Former Exchange Bank
PROJECT NUMBER: 0220805001, 32001
WELL DESIGNATION: M-6PROJECT DATE: 9/28/05
SAMPLER: Pon Xayla/Saeng
SAMPLE NUMBER: M-6

CONDITION OF WELL HEAD/VAUTL/CAP & LOCK:

- A. TOP OF CASING ELEVATION:
 B. DEPTH TO GROUNDWATER (initial): 11.80'
 C. DEPTH OF WELL: 20 MEASURED _____
 D. HEIGHT OF WATER COLUMN (C-B):
 E. GROUNDWATER ELEVATION (A-B):

CASING DIAMETER: 2" X 3" 4" OTHER _____CALCULATED WELL VOLUME: $D \times V = (20 - 11.80)(0.163) = 1.4 \text{ gal}$
 Volume (V) of 2" well - 0.163 gal/ft
 Volume (V) of 4" well - 0.653 gal/ftODOR NO SHEEN NO FLOATING PRODUCT THICKNESS NOPUMP TYPE: POLY BAILER STAINLESS BAILER
 ELECTRIC X OTHER _____

PUMP DEPTH:

TIME	GALLONS PURGED	NO. OF WELL VOLUMES	pH	TEMPERATURE (°F OR °C)	CONDUCTIVITY (mmhos/cm or $\mu\text{mhos}/\text{cm}$)	TURBIDITY (NTU or visual)	OPP (mV)
<u>1.4</u>	<u>1</u>	<u>7.40</u>	<u>20.3</u>	<u>766.1</u>	<u>Clear</u>	<u>130</u>	
<u>2.8</u>	<u>2</u>	<u>7.20</u>	<u>20.2</u>	<u>743.1</u>	<u>Clear</u>	<u>134</u>	
<u>4.2</u>	<u>3</u>	<u>7.21</u>	<u>19.9</u>	<u>743.6</u>	<u>Clear</u>	<u>135</u>	

RECHARGE RATE (qualitative):

SAMPLER TYPE: TEFLO N BAILER _____ ACRYLIC BAILER _____ DISPOSABLE BAILER _____

SAMPLES COLLECTED: PRESERVED VOA'S _____ UNPRESERVED VOA'S _____
 PRESERVED LITERS _____ UNPRESERVED LITERS _____
 500 ml PLASTIC BOTTLE WITH PRESERVATIVE FOR METALS:
 FILTERED _____ UNFILTERED _____
 OTHER _____

COMMENTS: _____

PROJECT NAME: Former Exchange Bank
PROJECT NUMBER: 027080500P.32001
WELL DESIGNATION: M-7PROJECT DATE: 9/29/05
SAMPLER: Pon Xayasaeng
SAMPLE NUMBER: M-7

CONDITION OF WELL HEAD/VAUTL/CAP & LOCK:

- A. TOP OF CASING ELEVATION:
B. DEPTH TO GROUNDWATER (initial): 11.93'
C. DEPTH OF WELL: 20 MEASURED _____
D. HEIGHT OF WATER COLUMN (C-B):
E. GROUNDWATER ELEVATION (A-B):

CASING DIAMETER: 2" X 3" 4" OTHER _____CALCULATED WELL VOLUME: D X V = $(20 - 11.93)(0.163) = 1.3 \text{ gal}$
Volume (V) of 2" well - 0.163 gal/ft
Volume (V) of 4" well - 0.653 gal/ftODOR NO SHEEN NO FLOATING PRODUCT THICKNESS NOPUMP TYPE: POLY BAILER STAINLESS BAILER
ELECTRIC X OTHER

PUMP DEPTH:

TIME	GALLONS PURGED	NO. OF WELL VOLUMES	pH	TEMPERATURE (°F OR °C)	CONDUCTIVITY (mmhos/cm or μmhos/cm)	TURBIDITY (NTU or visual)	DRP (mV)
	<u>1.3</u>	<u>1</u>	<u>6.75</u>	<u>19.8</u>	<u>788.3</u>	<u>Clear</u>	<u>144</u>
	<u>2.6</u>	<u>2</u>	<u>6.70</u>	<u>20.3</u>	<u>818.5</u>	<u>clear</u>	<u>137</u>
	<u>3.9</u>	<u>3</u>	<u>6.72</u>	<u>20.4</u>	<u>811.0</u>	<u>clear</u>	<u>127</u>

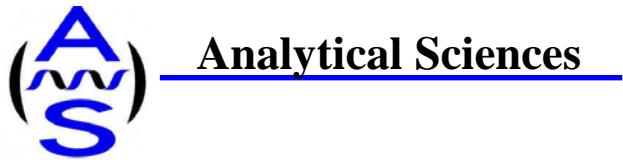
RECHARGE RATE (qualitative):

SAMPLER TYPE: TEFILON BAILER _____ ACRYLIC BAILER _____ DISPOSABLE BAILER _____

SAMPLES COLLECTED: PRESERVED VOA'S _____ UNPRESERVED VOA'S _____
PRESERVED LITERS _____ UNPRESERVED LITERS _____
500 ml PLASTIC BOTTLE WITH PRESERVATIVE FOR METALS:
FILTERED _____ UNFILTERED _____
OTHER _____

COMMENTS: _____

Appendix C
Analytical Laboratory Report



Analytical Sciences

Report Date: October 18, 2005

Laboratory Report

Pon Xayasaeng
Winzler & Kelly Consulting Engineers
495 Tesconi Circle, Suite 9
Santa Rosa CA, 95401

Project Name: **Former Exchange Bank** **0220805001.32001**
Lab Project: **5093009**

This 12 page report of analytical data has been reviewed and approved for release.

A handwritten signature in blue ink that reads "Mark A. Valentini".

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5093009-01	M-4	Gasoline	ND	50

Date Sampled:	09/29/05	Date Analyzed:	10/04/05	QC Batch: B000174
Date Received:	09/30/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5093009-02	M-3	Gasoline	ND	50

Date Sampled:	09/29/05	Date Analyzed:	10/04/05	QC Batch: B000174
Date Received:	09/30/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5093009-03	M-7	Gasoline	ND	50

Date Sampled:	09/29/05	Date Analyzed:	10/04/05	QC Batch: B000174
Date Received:	09/30/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5093009-04	M-1	Gasoline	ND	50

Date Sampled:	09/29/05	Date Analyzed:	10/05/05	QC Batch: B000174
Date Received:	09/30/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5093009-05	M-6	Gasoline	510	50

Date Sampled:	09/29/05	Date Analyzed:	10/05/05	QC Batch: B000174
Date Received:	09/30/05	Method:	EPA 8015	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5093009-01	M-4	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.1	90	70-130
Toluene-d8		20.5	102	70-130
4-Bromofluorobenzene		19.4	97	70-130

Date Sampled:	09/29/05	Date Analyzed:	10/03/05	QC Batch: B000165
Date Received:	09/30/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5093009-02	M-3	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		19.3	96	70-130
Toluene-d8		20.4	102	70-130
4-Bromofluorobenzene		19.1	96	70-130

Date Sampled:	09/29/05	Date Analyzed:	10/04/05	QC Batch: B000165
Date Received:	09/30/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5093009-03	M-7	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		19.4	97	70-130
Toluene-d8		20.6	103	70-130
4-Bromofluorobenzene		18.8	94	70-130

Date Sampled:	09/29/05	Date Analyzed:	10/04/05	QC Batch: B000165
Date Received:	09/30/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5093009-04	M-1	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		19.5	98	70-130
Toluene-d8		20.5	102	70-130
4-Bromofluorobenzene		19.2	96	70-130

Date Sampled:	09/29/05	Date Analyzed:	10/04/05	QC Batch: B000165
Date Received:	09/30/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5093009-05	M-6	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	6.8	1.0
		m,p-Xylene	4.6	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		19.4	97	70-130
Toluene-d8		20.2	101	70-130
4-Bromofluorobenzene		19.4	97	70-130

Date Sampled:	09/29/05	Date Analyzed:	10/04/05	QC Batch: B000165
Date Received:	09/30/05	Method:	EPA 8260B	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5093009-05	M-6	Nitrate	9.7	0.50
Date Sampled:	09/29/05	Date Analyzed:	09/30/05	QC Batch: B000159
Date Received:	09/30/05	Method:	EPA 300	

Phosphate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5093009-05	M-6	Phosphate	ND	0.20
Date Sampled:	09/29/05	Date Analyzed:	09/30/05	QC Batch: B000159
Date Received:	09/30/05	Method:	EPA 300.0	



Quality Assurance Report

TPH Gasoline in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000174 - EPA 5030 GC

Blank (B000174-BLK1) Prepared & Analyzed: 10/04/05

Gasoline	ND	50	ug/L
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Matrix Spike (B000174-MS1) Source: 5093009-01 Prepared & Analyzed: 10/04/05

Benzene	9.73	0.50	ug/L	10.0	ND	97	70-130
Toluene	9.73	0.50	ug/L	10.0	ND	97	70-130
Ethylbenzene	9.72	0.50	ug/L	10.0	ND	97	70-130
Xylenes	29.2	1.5	ug/L	30.0	ND	97	70-130

Matrix Spike Dup (B000174-MSD1) Source: 5093009-01 Prepared & Analyzed: 10/04/05

Benzene	9.56	0.50	ug/L	10.0	ND	96	70-130	1	20
Toluene	9.70	0.50	ug/L	10.0	ND	97	70-130	0	20
Ethylbenzene	9.68	0.50	ug/L	10.0	ND	97	70-130	0	20
Xylenes	29.1	1.5	ug/L	30.0	ND	97	70-130	0	20



Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000165 - EPA 5030 GC/MS										
Blank (B000165-BLK1)										
Prepared & Analyzed: 10/03/05										
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
m,p-Xylene	ND	1.0	ug/L							
o-Xylene	ND	1.0	ug/L							
1,2-Dibromoethane (EDB)	ND	1.0	ug/L							
1,2-Dichloroethane (EDC)	ND	1.0	ug/L							
Tertiary Butyl Alcohol (TBA)	ND	25	ug/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	ug/L							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/L							
 <i>Surrogate: Dibromofluoromethane</i> 17.6 ug/L 20.0 88 70-130										
<i>Surrogate: Toluene-d8</i> 20.8 ug/L 20.0 104 70-130										
<i>Surrogate: 4-Bromofluorobenzene</i> 20.9 ug/L 20.0 104 70-130										
Matrix Spike (B000165-MS1)										
Source: 5093009-01 Prepared & Analyzed: 10/03/05										
1,1-Dichloroethene (1,1-DCE)	21.0	1.0	ug/L	25.0	ND	84	70-130			
Benzene	21.9	1.0	ug/L	25.0	ND	88	70-130			
Trichloroethene (TCE)	21.4	1.0	ug/L	25.0	ND	86	70-130			
Toluene	22.6	1.0	ug/L	25.0	ND	90	70-130			
Chlorobenzene	22.5	1.0	ug/L	25.0	ND	90	70-130			
 <i>Surrogate: Dibromofluoromethane</i> 18.1 ug/L 20.0 90 70-130										
<i>Surrogate: Toluene-d8</i> 20.6 ug/L 20.0 103 70-130										
<i>Surrogate: 4-Bromofluorobenzene</i> 19.3 ug/L 20.0 96 70-130										
Matrix Spike Dup (B000165-MSD1)										
Source: 5093009-01 Prepared & Analyzed: 10/03/05										
1,1-Dichloroethene (1,1-DCE)	21.8	1.0	ug/L	25.0	ND	87	70-130	4	20	
Benzene	21.7	1.0	ug/L	25.0	ND	87	70-130	1	20	
Trichloroethene (TCE)	21.1	1.0	ug/L	25.0	ND	84	70-130	2	20	
Toluene	22.6	1.0	ug/L	25.0	ND	90	70-130	0	20	
Chlorobenzene	22.3	1.0	ug/L	25.0	ND	89	70-130	1	20	
 <i>Surrogate: Dibromofluoromethane</i> 18.2 ug/L 20.0 91 70-130										
<i>Surrogate: Toluene-d8</i> 20.2 ug/L 20.0 101 70-130										
<i>Surrogate: 4-Bromofluorobenzene</i> 19.1 ug/L 20.0 96 70-130										



Nitrate in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000159 - NO PREP

Blank (B000159-BLK1)				Prepared & Analyzed: 10/07/05						
Nitrate	ND	0.50	mg/L							
LCS (B000159-BS1)				Prepared & Analyzed: 10/07/05						
Nitrate	2.03	0.50	mg/L	2.00		102	80-120			
LCS Dup (B000159-BSD1)				Prepared & Analyzed: 10/07/05						
Nitrate	2.06	0.50	mg/L	2.00		103	80-120	1	20	



Phosphate in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
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Batch B000159 - NO PREP

Blank (B000159-BLK1)

Prepared & Analyzed: 10/07/05

Phosphate ND 0.20 mg/L



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference



Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

5093009

LAB PROJECT NUMBER:

WINZLER & KELLY PROJECT NAME:
Former Exchange Bank

CLIENT INFORMATION

COMPANY NAME: WINZLER & KELLY CONSULTING ENGINEERS

ADDRESS: 495 TESCONI CIRCLE, SUITE 9

SANTA ROSA, CA 95401-4696

CONTACT: Ron; Questions: Ron

PHONE#: (707) 523-1010

FAX #: (707) 527-8679

TURNAROUND TIME (check one)	
MOBILE LAB	24 HOURS
SAME DAY	72 HOURS
48 HOURS	NORMAL
5 DAYS	X

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	#	CONT.	PRESV. YES/NO	ANALYSIS		COMMENTS	LAB SAMPLE #
								TEST	RESULT		
1	M-4	01/29/05	8:45	W	4		X				-01
2	M-3		8:50		1						-02
3	M-7		9:10		4						-03
4	M-1		9:51		4						-04
5	M-6		10:07		6						-05
6											
7											
8											
9											
10											
11											

SIGNATURES

SAMPLED BY:

Ron Xayasingh

DATE:

9/29/05 14:03

TIME:

2:20pm

RECEIVED BY LABORATORY:

John Weller

SIGNATURE:

John Weller

SIGNATURE:

9/30/05 2:20pm

TIME

DATE

Appendix D

GeoTracker Upload Verifications

Electronic Submittal Information

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UPLOADING A GEO_WELL FILE

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Title: Well Measurement File, 3rd Quarter 2005, Former Exchange Bank

Submittal Date/Time: 10/28/2005 9:29:24 AM

Confirmation Number: 6773930191

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UPLOADING A GEO_REPORT FILE

YOUR DOCUMENT UPLOAD WAS SUCCESSFUL!

Facility Name: EXCHANGE BANK
Global ID: T0609700062
Title: Quarterly Monitoring Report, 4th Qtr 2004
Document Type: Monitoring Report - Quarterly
Submittal Type: GEO_REPORT
Submittal Date/Time: 6/29/2005 8:46:11 AM
Confirmation Number: 3737760245

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UPLOADING A GEO_REPORT FILE

YOUR DOCUMENT UPLOAD WAS SUCCESSFUL!

Facility Name: EXCHANGE BANK
Global ID: T0609700062
Title: Annual Monitoring Report including 1st Qtr 2005 Monitoring Report
Document Type: Monitoring Report - Annual
Submittal Type: GEO_REPORT
Submittal Date/Time: 6/29/2005 8:49:48 AM
Confirmation Number: 2570600211

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UPLOADING A GEO_REPORT FILE

YOUR DOCUMENT UPLOAD WAS SUCCESSFUL!

Facility Name: EXCHANGE BANK
Global ID: T0609700062
Title: Quarterly Groundwater Monitoring Report, 2nd Qtr 2005
Document Type: Monitoring Report - Quarterly
Submittal Type: GEO_REPORT
Submittal Date/Time: 9/9/2005 2:29:53 PM
Confirmation Number: 8278822183

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